



# Chemicals

## 2017



**CARLO ERBA**  
REAGENTS

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*CARLO ERBA Reagents has been a part of the Dasit Group since July 2013 and I am pleased and honored to lead a multinational Team that combines the virtuosity of its pharmacist founder with more than one century tradition of excellence, and the spirit of service typical of our Group.*

*CARLO ERBA Reagents is driven by passion, an entrepreneurial spirit, eagerness to innovate and, above all, the desire to consistently connect with and serve our Customers.*

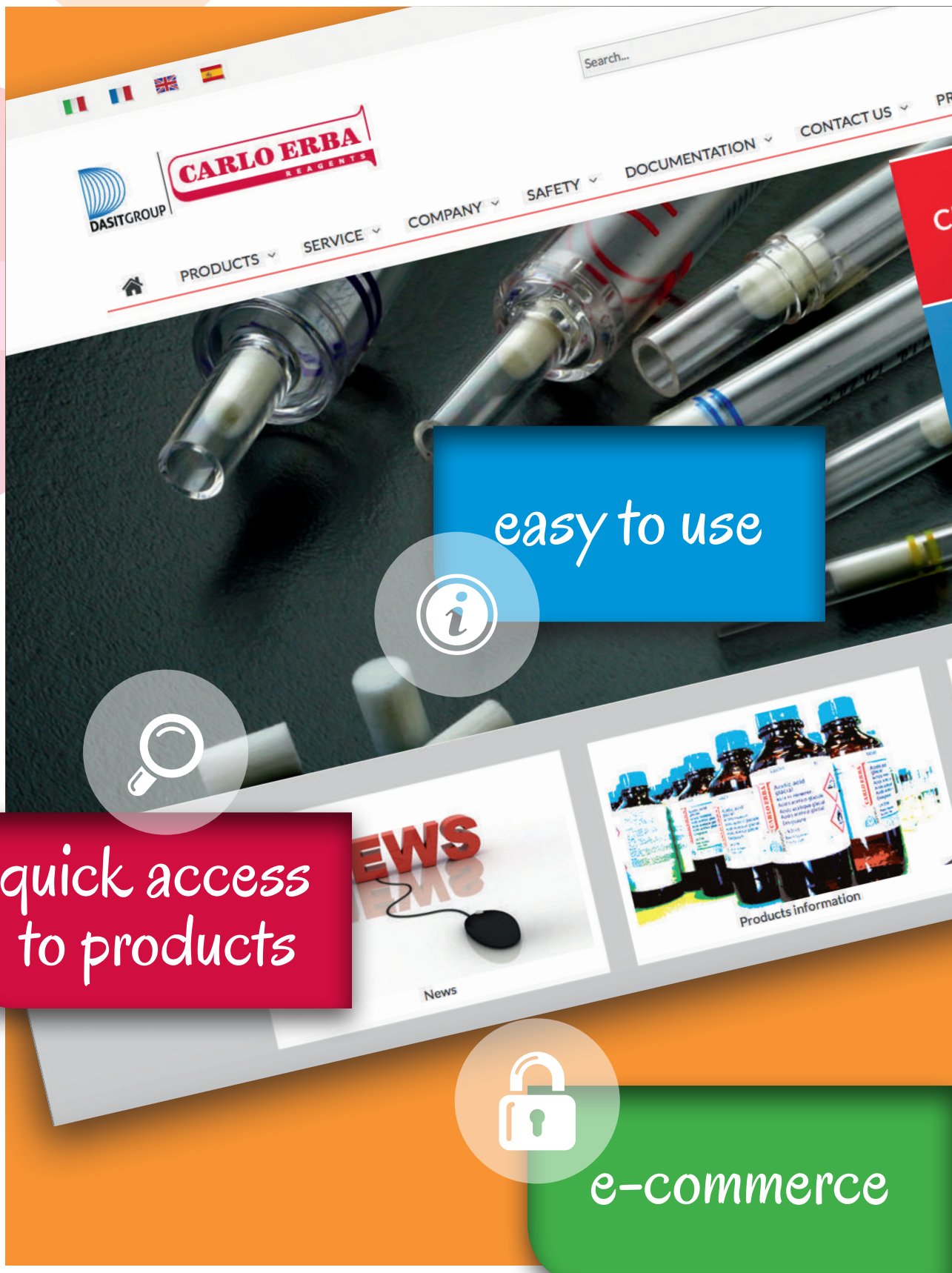
*The 2017 edition of the CARLO ERBA Reagents catalog is a proof of how the pride of the past can be combined with the foresight for the future.*

*Special thanks to you, dear Customers, who continue to demonstrate your loyalty and affection in Europe and around the world.*

Angelo Fracassi, President of DASIT Group



# WEB AND CONTACTS



easy to use



quick access  
to products

NEWS

News

Products information



e-commerce



### ITALIA

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## **www.carloerbareagents.com**

- Online catalogue (research by CAS, product name, product codes) with updated specifications;
- Updated MSDS in multi-language and certificate of analysis ready to download;
- Catalogues and Brochures ready to download;
- Contacts for technical information and requests for quotation

### ***Ask us an e-commerce account:***

- For a full management of your order, from the creation of the cart to the direct transmission into our database, even at multiple permission level;
- To check our stock availability in real time;
- To consult your archive of quotations, orders, delivery notes and invoices;
- To see our price list, your specific commercial conditions and all the promotional activities

# PRODUCTION



CARLO ERBA Reagents ensures its customers both quality and service thanks to its modern production plants, state-of-the-art quality control labs and efficient logistics.

Its production facilities in France are IPEC 2006 compliant and have been audited by the French ANSM agency for the production and distribution of excipients and raw materials for pharmaceutical use.

Mixers, distillation columns, storage tanks, automated packaging lines and clean rooms are just some of the technologies engineered to meet the vast range of your needs.

Respect for the safety of all personnel, safeguarding the environment and vision of environmental sustainability, along with product quality, are the strategic values of CARLO ERBA Reagents.





CARLO ERBA Reagents garantisce al mercato qualità e servizio grazie a moderni impianti di produzione, laboratori di controllo qualità all'avanguardia ed un'efficiente organizzazione logistica. I nostri stabilimenti produttivi in Francia operano in conformità alle linee guida IPEC 2006 e hanno superato l'audit dell'agenzia francese ANSM, per la produzione e la distribuzione di eccipienti e materie prime ad uso farmaceutico. Reattori, colonne di distillazione, serbatoi per lo stoccaggio, linee automatiche di confezionamento e clean rooms sono solo alcune delle tecnologie a disposizione per soddisfare le più diverse esigenze del mercato. Il rispetto della sicurezza di tutti gli operatori, la salvaguardia dell'ambiente e una visione di sostenibilità a livello di impatto ambientale, affiancati alla qualità dei prodotti, rappresentano dei valori strategici per CARLO ERBA Reagents.



Le groupe CARLO ERBA Reagents offre à ses clients qualité et service à travers la flexibilité de sa production et de ses installations. Les unités de production situées en France suivent le guide IPEC 2006 pour la fabrication et la distribution des excipients à usage pharmaceutique et sont déclarées à l'ANSM selon le décret n° 2008-109 pour la production de matières premières à usage pharmaceutiques. Mélangeurs, colonnes de distillation, cuves de stockage, lignes de conditionnement automatisées, salles blanches sont quelques-uns des équipements à notre disposition pour répondre aux besoins du marché. Des procédures opérationnelles standardisées, des opérateurs hautement qualifiés pour une meilleure gestion des installations, des contrôles permanents de toutes les phases de la production, du conditionnement, du nettoyage sont les critères qui guident CARLO ERBA Reagents dans son activité industrielle. Le respect des normes environnementales, de l'hygiène et de la sécurité est une des préoccupations de CARLO ERBA Reagents.



CARLO ERBA Reagents garantiza al mercado calidad y servicio gracias a modernas plantas de producción, laboratorios de control de calidad a la vanguardia y una eficiente organización logística. Nuestros centros productivos en Francia trabajan siguiendo la guía de buenas prácticas IPEC 2006 y han sido declarados a la Agencia nacional francesa de seguridad de los medicamentos (ANSM) para la producción y distribución de excipientes y materias primas de uso farmacéutico. Reactores, columnas de destilación, tanques de almacenamiento, líneas automáticas de envasado y salas blancas son solamente un ejemplo de las tecnologías que disponemos para satisfacer las exigencias del mercado más severas. El respeto de la seguridad de todos los trabajadores, la protección del medio ambiente y una perspectiva de sostenibilidad en lo que se refiere al impacto ambiental, junto con la calidad de los productos, son los valores estratégicos de CARLO ERBA Reagents.



Mit modernen Produktionsanlagen, mit Labors für die Qualitätskontrolle, die dem allerneuesten Stand der Technik entsprechen und einer effizienten Logistik garantiert CARLO ERBA Reagents für Qualität und Serviceleistungen auf höchstem Niveau. Unsere Produktionsstätten in Frankreich arbeiten nach Vorgabe der IPEC 2006 Leitlinie und haben eine Zulassung der französischen Behörde ANSM für die Herstellung und den Vertrieb von Hilfsstoffen und Pharmazeutischen Rohstoffen. Reaktoren, Destillationskolonnen, Tanks, automatische Verpackungsanlagen und Reinräume sind nur einige der eingesetzten Technologien, die es uns ermöglichen, die unterschiedlichsten Anforderungen des Marktes zufrieden zu stellen. Die Sicherheit am Arbeitsplatz für alle Beschäftigten, der Umweltschutz und die Vision einer umweltverträglichen Produktion bilden zusammen mit der Produktqualität die strategischen Werte, die im Mittelpunkt der Unternehmensphilosophie von CARLO ERBA Reagents stehen.

# QUALITY



CARLO ERBA Reagents is ISO 9001:2008 certified.

In order to best serve the market, our quality management system is improvement-driven, based on operating procedures that carefully monitor every step in the production process, from the raw material to the finished product.

This system ensures the complete traceability of all materials used in production, a timely change control process and management of technical documentation.

The entire process is carefully monitored through regularly-scheduled inspections performed by in-house staff, company officials, inspectors and end users.



CARLO ERBA Reagents è un'azienda certificata ISO 9001:2008.

Il nostro sistema di gestione della qualità è orientato al continuo miglioramento, al fine di assicurare al mercato il migliore servizio, con l'ausilio di procedure operative per il presidio di tutte le fasi del processo lavorativo, dalla materia prima al prodotto finito.

Il sistema assicura la completa tracciabilità di tutti i materiali utilizzati per la produzione, un puntuale servizio di change control e la gestione della documentazione tecnica.

L'intero processo è accuratamente monitorato da revisioni periodiche eseguite da personale dipendente, funzionari, ispettori e clienti utilizzatori.



CARLO ERBA Reagents est certifié ISO 9001:2008. Le système d'assurance qualité est basé sur la gestion des risques concernant les systèmes techniques et les sites de production, la qualification des installations adaptée à notre activité, le contrôle des procédés, les procédures de nettoyage et les méthodes analytiques.

Indépendant de la production, le département qualité gère la gestion de la documentation, le contrôle des enregistrements, la traçabilité, les audits internes, le change control, le suivi périodique des indicateurs, l'amélioration continue.



CARLO ERBA Reagents es una empresa certificada ISO 9000:2008. Nuestro sistema de calidad está basado sobre la mejora continua para asegurar el mejor servicio al mercado gracias a la utilización de procedimientos operativos que supervisan todas las fases del proceso del trabajo, desde la materia prima hasta el producto acabado.

El sistema asegura la trazabilidad de todos los materiales utilizados para la producción, un servicio de "change control" y la gestión de la documentación técnica.

El seguimiento escrupuloso de todo el proceso se realiza a través de revisiones periódicas llevadas a cabo por nuestro personal, directivos, inspectores y clientes usuarios.



CARLO ERBA Reagents ist nach ISO 9001:2008 zertifiziert.

Unser Qualitätsmanagementsystem hat sich eine konstante Verbesserung zum Ziel gesetzt, um dem Markt Leistungen auf höchstem Niveau garantieren zu können. Erreicht wird die hohe Qualität durch Verfahren, mit denen alle Phasen des Produktionsprozesses – vom Rohstoff bis zum fertigen Produkt – kontrolliert werden.

Dieses System garantiert eine lückenlose Rückverfolgbarkeit aller in der Produktion verwendeten Materialien und Einen rechtzeitigen Änderungsprozess und die korrekte Verwaltung der technischen Dokumentation.

Der gesamte Prozess wird strikt überwacht. Dazu werden regelmäßige interne wie externe Inspektionen durch eigene Mitarbeiter, Beamten, Inspektoren und Kunden durchgeführt.





# SERVICE



CARLO ERBA Reagents is specialized in the manufacture of custom-tailored products for industry and laboratories. All customized products come with a certificate of analysis and a safety data sheet in compliance with current regulations.

Product customization may involve the formulation of new mixtures, the introduction of new qualitative parameters or the use of special packing and packaging to meet on-demand customer specifications.

CARLO ERBA Reagents supplies solvents in reusable, stainless steel 'shuttle' drums to optimize the quality and handling of its solvents as well as to eliminate the need to dispose of empty drums. This solution is ideally-suited to applications that require large amounts of solvents.

Lastly, CARLO ERBA Reagents offers an outsource research service for chemical products that are especially difficult to find; the advantages for the requesting party are that the process is managed entirely by CARLO ERBA Reagents, from the research process to practical handling of customs clearance, including REACH IT and currency exchange.



CARLO ERBA Reagents è un'azienda specializzata nella realizzazione di prodotti "Tailor Made" per l'industria e il laboratorio. I nostri prodotti "Tailor Made" sono sempre corredati da un certificato di analisi e una scheda di sicurezza conformi alle normative vigenti.

I termini di personalizzazione del prodotto possono riguardare la formulazione di nuove miscele, l'introduzione di nuovi parametri qualitativi oppure la fornitura in particolari confezionamenti e imballaggi su specifica richiesta del cliente. Inoltre, CARLO ERBA Reagents offre anche il servizio di fornitura solventi in contenitori navetta di acciaio inox, ideali per ottimizzare la qualità dei solventi, la loro manipolazione e i costi di smaltimento dei vuoti. Questa soluzione è particolarmente indicata in applicazioni con consumi importanti di solventi.

Infine, CARLO ERBA Reagents mette a vostra disposizione un servizio outsourcing di ricerca prodotti chimici particolari non facilmente reperibili sul mercato, che ha il vantaggio per il richiedente di essere completamente gestito, dal processo di ricerca alla gestione delle pratiche di sdoganamento, fino al REACH IT e al cambio valuta.



Depuis plusieurs années, CARLO ERBA Reagents est reconnu comme étant le spécialiste du service à façon pour l'industrie et le laboratoire. Nous développons, en partenariat avec nos clients, un service sur mesure : expérience, flexibilité et adaptabilité sont les mots clés pour répondre à leurs attentes et respecter leurs exigences.

Nous fabriquons vos mélanges spécifiques (organiques ou aqueux), vos solutions titrées, vos phases éluantes, ...dans le conditionnement de votre choix, avec un étiquetage et une FDS conformes aux réglementations en vigueur, un certificat d'analyses.

CARLO ERBA Reagents propose également des conditionnements navettes en inox pour optimiser la qualité du solvant et la gestion des déchets d'emballage. Ce type de conditionnement répond au besoin des clients qui consomment de gros volumes de solvants, au laboratoire ou en production.

CARLO ERBA Reagents met à votre disposition un service Out-Sourcing afin de de vous permettre d'externaliser vos recherches de produits chimiques rares et vous décharger de la gestion de REACH IT, des paiements en devises étrangères, du dédouanement, ....



CARLO ERBA Reagents es una empresa especializada en la fabricación de productos a medida para la industria y el laboratorio. Nuestros productos a medida van siempre acompañados de certificado de análisis y ficha de seguridad conformes con las normativas vigentes.

La personalización del producto puede referirse a la formulación de nuevas mezclas, a la introducción de nuevos parámetros de calidad o bien al suministro de envases y embalajes especiales según las especificaciones del cliente. Además, CARLO ERBA Reagents ofrece también el servicio de suministro de disolventes en contenedores retornables de acero inoxidable, ideales para optimizar la calidad de los disolventes, su manejo y los costes de eliminación de envases. Esta solución es particularmente indicada en aplicaciones con consumos importantes de disolventes.

Por último, CARLO ERBA Reagents propone un servicio externalizado de búsqueda de productos químicos raros, no fácilmente disponibles en el mercado, que para el cliente tiene la ventaja de ser completamente gestionado por nosotros, del proceso de búsqueda a la gestión de los trámites aduaneros, el REACH IT y el cambio de divisa.



CARLO ERBA Reagents ist auf die Herstellung kundenspezifischer Produkte für die Industrie und Labore spezialisiert. Alle von uns hergestellten Produkte werden mit einem Analysezertifikat und einem Sicherheitsdatenblatt geliefert, die den Vorgaben der geltenden Gesetzgebung entsprechen.

Kundenspezifische Vorgaben können zur Formulierung neuer Gemische, zur Einführung neuer Qualitätsparameter führen oder auch dazu, dass Produkte in speziell vom Kunden angefragten Sonderverpackungen und Verpackungsarten angeliefert werden.

CARLO ERBA Reagents bietet außerdem einen Lieferservice für Lösungen in Mehrwegbehältern aus Edelstahl, die nicht nur ideal sind, um die Qualität der Lösungen und deren Handhabung zu optimieren, sondern auch die Kosten für die Entsorgung von Leergut senken. Die Mehrwegbehälter eignen sich besonders gut für Anwendungen, in denen Lösungen in großen Mengen erforderlich sind.

Zu den weiteren Leistungen von CARLO ERBA Reagents gehört ein Outsourcing-Service für die Suche nach besonderen Chemikalien, deren Beschaffung auf dem Markt aufwändig ist. Dieser Service bietet dem Kunden den Vorteil, dass die gesamte Prozedur von uns verwaltet wird, von der Recherche über die Abwicklung der Zollformalitäten bis zur Registrierung über das Portal REACH-IT und die Währungsumrechnung.

# LABWARE



Proponiamo un'ampia gamma di prodotti di base per il laboratorio: dalla piccola strumentazione di uso comune - come agitatori, bagni termostatici, centrifughe, stufe - a materiale in vetro ed in plastica per la manipolazione, preparazione e conservazione di soluzioni di ogni genere.

Il range di prodotti include inoltre una serie di prodotti a marchio CARLO ERBA Reagents per specifiche applicazioni di laboratorio:

IDRIMETER® - kit affidabili e precisi per l'analisi delle acque chiare e di scarico, sia manuali per analisi in loco che strumentali in abbinamento con spettrofotometro dedicato;

AUSILAB® - un range completo di detergenti/disinfettanti per il lavaggio manuale ed automatico della vetreria di laboratorio in qualsiasi ambito analitico;

CARTINE INDICATRICI di pH - disponibilità di un'ampia gamma di tornasole, indicatori misti ad alta sensibilità in rotoli, indicatori tricromatici in rotolo, indicatori in strisce con scala cromatica incorporata e non-incorporata.



Nous proposons une gamme étendue de produits de base pour le laboratoire: des instruments - mélangeurs, bains thermostatiques, centrifugeuses, incubateurs ... - jusqu'au consommable en verre et plastique pour la manipulation, la préparation et le stockage de toutes les solutions de qualités.

Notre gamme de produits comprend également des produits de marque CARLO ERBA Reagents pour des applications de laboratoire spécifiques:

IDRIMETER® - kits fiables et précis pour l'analyse de l'eau, manuels pour l'analyse sur le terrain ou instrumentaux à utiliser conjointement avec un spectrophotomètre dédié

AUSILAB® - une gamme complète de détergents / désinfectants appropriés pour le lavage manuel et en auto laveurs pour tous les domaines de l'analyse

PAPIERS INDICATEURS pH - une grande variété de papiers indicateurs est disponible: tournesol, en rouleaux à haute sensibilité, en rouleaux trichromiques, en bandes avec échelle chromatique incorporée, ou en bandes avec échelle chromatique non incorporée indélébile.



Proponemos una amplia gama de productos básicos para el laboratorio: desde el pequeño utillaje de uso común - como agitadores, baños termostáticos, centrifugas, estufas - hasta material de vidrio y plástico para la manipulación, preparación y conservación de soluciones de todo tipo.

La gama de productos incluye además una serie de productos con marca CARLO ERBA Reagents para específicas aplicaciones de laboratorio:

IDRIMETER® - kits fiables y de precisión para el análisis de aguas claras y efluentes, tanto manuales, para análisis in situ, como instrumentales, en combinación con espectrofotómetro específico;

AUSILAB® - un surtido completo de detergentes/desinfectantes para la limpieza manual y automática de los vidrios de laboratorio en cualquier ámbito analítico;

PAPEL INDICADOR DE pH - disponibilidad de una amplia gama de papeles indicadores: tornasol, rollos de papel pH mixto de alta sensibilidad, rollos de papel pH tricromático, tiras con escala cromática incorporada y no incorporada.



CARLO ERBA Reagents bietet eine breite Produktpalette für die Laborausstattung, von Kleingeräten für den täglichen Bedarf, wie Rührer, thermostatgesteuerte Bäder, Zentrifugen und Öfen, bis hin zu Verbrauchsmaterial und Laborzubehör aus Glas und Kunststoff für die Handhabung, die Vorbereitung und die Aufbewahrung von Lösungen aller Art.

Das Produktsortiment umfasst außerdem drei Produktreihen der Marke CARLO ERBA Reagents für spezifische Laboranwendungen:

IDRIMETER® - Zuverlässige und präzise Tests für die Analyse von Frischwasser und Abwasser für die manuelle Analyse vor Ort und für die Analyse mit einem entsprechenden Spektrophotometer.

AUSILAB® - Komplette Produktreihe mit Reinigungs- und Desinfektionsmitteln für das manuelle und automatische Waschen von Laborzubehör aus Glas für Analysen aller Art.

pH-INDIKATORPAPIER - Umfangreiches Angebot an pH-Indikatorpapier: Lackmuspapier, hochempfindliche gemischte Indikatoren auf der Rolle, dreifarbige Indikatoren auf der Rolle, Teststreifen mit integrierter und nicht integrierter Farbskala.



CARLO ERBA Reagents offers a robust selection of basic laboratory products: from commonly-used small instruments - like agitators, thermostatically-controlled baths, centrifuges and heaters - to glass and plastic materials for the handling, preparation and storage of all kinds of solutions.

The range of products also includes a series of CARLO ERBA Reagents-branded products for specific laboratory applications:

IDRIMETER® - accurate, reliable kits for analysis of freshwater and wastewater; manual type for in-field analyses and instrumental type with dedicated spectrophotometer;

AUSILAB® - a complete range of detergents and disinfectants for manual and automatic washing of laboratory glassware for all types of analyses;

pH INDICATOR PAPERS – a wide range of test strips: litmus, high sensitivity mixed indicators on rolls, three-color indicators on reels and indicator strips with and without reference color scale.



# LABELS




- 1 PRODUCT NAME
- 2 PRODUCT CODE
- 3 SIZE
- 4 GRADE
- 5 APPLICATION
- 6 GHS HAZARD SYMBOLS
- 7 GHS REFERENCES OF WARNING AND PRECAUTIONARY
- 8 LOT NUMBER AND EXPIRATION DATE
- 9 INTERNATIONAL IDENTIFICATION
- 10 MAIN TECHNICAL SPECIFICATION
- 11 BARCODE TO READ PRODUCT CODE AND BATCH NUMBER

CH3OH  
EEC n°200-859-6  
CAS n° 67-56-1  
MW(g/mol) 32

Description Clear colourless liquid -  
Colour ≤ 5 APHA  
Identification (I.R.) Positive -  
Refractive index at 20°C 1.3270 - 1.3300 -  
Residue on evaporation ≤ 1 ppm  
Acidity ≤ 0.0003 meq/g  
Alkalinity ≤ 0.00004 meq/g  
Assay (CPG) ≥ 99.99 %  
Water (K.F.) ≤ 200 ppm  
Transmittance - -  
At 210 nm ≥ 40 %  
At 225 nm ≥ 70 %  
At 230 nm ≥ 80 %  
At 240 nm ≥ 90 %  
Fluorescence (quinine) - -  
At 254 nm ≤ 1 job  
At 365 nm ≤ 1 job  
UHPD gradient peak - -  
At 220 nm ≤ 4 mAU  
At 235 nm ≤ 2 mAU  
At 254 nm ≤ 1 mAU  
Drift at 220 nm ≤ 30 mAU  
Drift at 235 nm ≤ 10 mAU  
Sensitive Impurities (reserpine) ≤ 30 ppb  
Metals compounds - -

See the CoA for more information



414941V6C402

414941

**Methanol** **RS**

for UHPLC-MS

**Metanolo**  
**Méthanol**  
**Metanol**  
**Methanol**

**UN 1230**

Batch Number **V6C402**  
Expiry Date **2022/01**

**CARLO ERBA** REAGENTS

**DASITGROUP**

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792021-02/13

**11**

**4**

**8**

**6**

**7**

**DANGER**  
H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H370 Causes damage to organs. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P241 Use explosion-proof electrical/ventilating/lighting/... equipment. P264 Wash thoroughly after handling. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P403+P235 Store in a well-ventilated place. Keep cool.

**PERICOLO**  
H225 Liquido e vapori facilmente infiammabili. H301 Tossico se ingerito. H311 Tossico per contatto con la pelle. H331 Tossico se inalato. H370 Provoca danni agli organi. P210 Tenere lontano da fonti di calore/scintille/fiamme /superfici riscaldate - Non fumare. P241 Utilizzare impianti elettrici di ventilazione/d'illuminazione a prova di esplosione. P264 Lavare accuratamente dopo l'uso. P303+P361+P353 IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciacquare la pelle/face una doccia. P304+P340 IN CASO DI INALAZIONE: trasportare l'infortunato all'aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione. P403+P235 Conservare in luogo fresco e ben ventilato.

**DANGER**  
H225 Liquid and vapours very flammable. H301 Toxic in case of ingestion. H311 Toxic by contact with skin. H331 Toxic by inhalation. H370 Risk of serious effects on organs. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P241 Use explosion-proof electrical/ventilating/lighting/... equipment. P241 Utiliser du matériel électrique/de ventilation/d'éclairage/... antidéflagrant. P264 Se laver soigneusement après manipulation. P303+P361+P353 EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): enlever immédiatement les vêtements contaminés. Rincer la peau à l'eau/se doucher. P304+P340 EN CAS D'INHALATION: transporter la victime à l'extérieur et la maintenir au repos dans une position où elle peut respirer confortablement. P403+P235 Stocker dans un endroit bien ventilé. Tenir au frais.

**PELIGRO**  
H225 Líquido y vapores muy inflamables. H301 Tóxico en caso de ingestión. H311 Tóxico en contacto con la piel. H331 Tóxico en caso de inhalación. H370 Provoca daños en los órganos. P210 Manténgase alejado de fuentes de calor, chispas, flama abierta o superficies calientes. - No fumar. P241 Emplear material eléctrico, de ventilación o de iluminación /... antidéflagrante. P264 Lavarse concienzudamente tras la manipulación. P303+P361+P353 EN CASO DE CONTACTO CON LA PIEL (o el pelo): Qüitese inmediatamente las prendas contaminadas. Acérrese la piel con agua o duchese. P304+P340 EN CASO DE INHALACIÓN: Transportar a la persona al exterior y mantenerla en reposo en una posición confortable para respirar. P403+P235 Almacenar en un lugar bien ventilado. Manténgase al fresco.

**GEFAHR**  
H225 Flüssigkeit und Dampf leicht entzündbar. H301 Giftig bei Verschlucken. H311 Giftig bei Hautkontakt. H331 Giftig bei Einatmen. H370 Schädigt die Organe. P210 Von Hitze/Funken/offener Flamme/heißen Oberflächen fernhalten. Nicht rauchen. P241 Explosionsgeschützte elektrische Anlagen/Lüftungsanlagen/ Beleuchtungsanlagen/... verwenden. P264 Nach Handhabung gründlich waschen. P303+P361+P353 BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit reichlich Wasser und Seife waschen. P304+P340 BEI ENATMEN: An die frische Luft bringen und in einer Position ruhigstellen, die das Atmen erleichtert. P403+P235 An einem gut belüfteten Ort lagern. Kühl halten.



GHS is an international system designed to harmonize the classification, labeling and packaging of chemicals, transposed into the European Community as EC Regulation No. 1272/2008 and known as CLP (Classification, Labeling and Packaging).

The regulation, in effect since January 20<sup>th</sup>, 2009, defines a new system of classification, labeling and packaging of substances and mixtures. The hazard symbols in use under the previous 67/548/EEC directive have been replaced with new CLP pictograms.

All CARLO ERBA Reagents-branded substances and mixtures comply with the current regulations.



Il GHS è un Sistema Internazionale creato con lo scopo di armonizzare la classificazione, l'etichettatura e l'imballaggio dei prodotti chimici. All'interno della Comunità Europea, è stato recepito come Regolamento (CE) n. 1272/2008, chiamato CLP (Classification, Labelling and Packaging).

Questo regolamento, in vigore dal 20 gennaio 2009, definisce un nuovo sistema di classificazione, etichettatura e confezionamento di sostanze e miscele. I simboli di pericolo previsti dalla vecchia direttiva 67/548/CEE sono stati sostituiti dai nuovi pittogrammi previsti dal CLP.

Tutte le sostanze e le miscele a marchio CARLO ERBA Reagents sono commercializzate in conformità alla normativa vigente.



Le GHS est un système international valable pour tous les acteurs du marché dont le but est l'harmonisation de la classification et de l'étiquetage des produits chimiques (étiquettes et FDS). Au niveau de l'Union Européenne, il a été transposé en règlement 1272/2008, appelé CLP (Classification, Labelling and Packaging). Ce règlement, entré en vigueur depuis le 20/01/2009, définit un nouveau système de classification d'étiquetage et de packaging pour les substances et les mélanges avec l'introduction de nouveaux symboles de danger qui remplacent ceux de la Directive Européenne 67/548/CEE précédemment en vigueur.

CARLO ERBA Reagents a mis en place cette directive pour toutes les substances et mélanges fabriqués sous sa marque.



El GHS es un sistema internacional creado con el objetivo de armonizar la clasificación, el etiquetado y el envasado de los productos químicos que fue incorporado por la Comunidad Europea en el Reglamento (CE) nº 1272/2008, denominado CLP (de sus siglas en inglés, Classification, Labelling and Packaging).

Este reglamento, en vigor desde el 20 de enero de 2009, define un nuevo sistema de clasificación, etiquetado y envasado de sustancias y mezclas. Los símbolos de peligro previstos por la anterior Directiva 67/548/CEE fueron sustituidos por los nuevos pictogramas previstos por el CLP.

Todas las sustancias y mezclas de marca CARLO ERBA Reagents que se comercializan cumplen la normativa vigente.



Das Globale Harmonisierte System (GHS) ist ein internationales System zur Vereinheitlichung der Klassifizierung, Etikettierung und Verpackung von Chemikalien. Es wurde mit der EG-Verordnung Nr. 1272/2008, welche auch als CLP-Verordnung (Classification, Labelling and Packaging) bekannt ist, in der europäischen Gemeinschaft umgesetzt.

Diese Verordnung, die seit dem 20. Januar 2009 in Kraft ist, legt ein neues System für die Klassifizierung, Etikettierung und Verpackung von Stoffen und Gemischen fest. Die von der Vorgängerrichtlinie 67/548/EWG festgelegten Gefahrensymbole wurden durch die neuen Piktogramme der CLP-Verordnung ersetzt.

Alle Stoffe und Gemische der Marke CARLO ERBA Reagents werden unter Beachtung der geltenden Vorschriften in den Handel gebracht.

# CERTIFICATE OF ANALYSIS



All certificates of analysis for CARLO ERBA Reagents products are available on its website at [www.carloerbareagents.com](http://www.carloerbareagents.com) by entering the lot number and the product code printed on the label.

The expiration date for each reagent is printed on both the label and the certificate of analysis. This information applies to products stored in their original and intact packaging, stored away from heat and light, as specified in the safety data sheet.



Tutti i certificati di analisi dei nostri prodotti sono disponibili e reperibili sul sito [www.carloerbareagents.com](http://www.carloerbareagents.com) inserendo il codice e il numero di lotto riportato sull'etichetta.

La data di scadenza, attribuita ad ogni nostro reagente, è riportata sia sull'etichetta che sul certificato di analisi. Tale informazione è valida per i prodotti conservati nel loro imballo originale ed integro, al riparo dalla luce e dal calore, o come da indicazioni riportate sulla relativa scheda di sicurezza.



Tous les certificats d'analyses sont disponibles sur le site [www.carloerbareagents.com](http://www.carloerbareagents.com) simplement en indiquant le code produit et le numéro du lot noté sur l'étiquette du produit acheté.

La date de péremption est toujours mentionnée sur l'étiquette et le certificat d'analyse. Ces indications sont valables pour des produits dans leur emballage d'origine, non ouverts, conservés à l'abri de la chaleur, de la lumière et de l'humidité, et selon les indications précisées sur la FDS.



Todos los certificados de análisis de nuestros productos se pueden encontrar y consultar en la web [www.carloerbareagents.com](http://www.carloerbareagents.com), introduciendo el código y el número de lote indicado en la etiqueta.

La fecha de caducidad, atribuida a cada reactivo de nuestra producción, aparece indicada tanto en la etiqueta como en el certificado de análisis. La validez de esas informaciones se refiere a productos conservados en el embalaje original e íntegro, protegidos de la luz y del calor o según las indicaciones especificadas en la correspondiente ficha de seguridad.



Alle Analysezertifikate unserer Produkte sind auf unserer Webseite [www.carloerbareagents.com](http://www.carloerbareagents.com) verfügbar und können durch Eingabe der Artikelnummer und der Chargennummer, welche auf dem Etikett des Produktes stehen, aufgerufen und heruntergeladen werden.

Das Haltbarkeitsdatum unserer Reagenzien steht auf dem Etikett sowie auf dem Analysezertifikat. Die Angabe gilt nur für Produkte, die in ihrer ungeöffneten Originalverpackung an einem vor Licht und Wärme geschützten Ort und unter Beachtung der Angaben im dem Sicherheitsdatenblatt aufbewahrt werden.

- 1 PRODUCT
- 2 CODE
- 3 LOT NUMBER
- 4 EXPIRATION DATE
- 5 CODE OF THE METHOD USED FOR THE QUALIFICATION OF THE PRODUCT
- 6 CERTIFICATE EDITION NUMBER WHICH CHANGES WHEN GUARANTEED SPECIFICATIONS ARE UPDATED
- 7 DESCRIPTION OF THE QUALITY CONTROL TESTS THE PRODUCT UNDERGOES
- 8 UNIT OF MEASURE
- 9 GUARANTEED PRODUCT SPECIFICATIONS
- 10 TEST RESULTS OBTAINED FOR THE SPECIFIC LOT, AND FOR EACH SINGLE TEST, IN COMPLIANCE WITH INTERNATIONAL STANDARDS, IF APPLICABLE
- 11 APPROVAL DATE FOR TEST RESULTS





Carlo Erba Reagents S.A.S.  
Parc d'Activités des Portes  
Chaussée du Vexin - BP 616  
27106 Val de Reuil Cedex  
Tél.: 02.32.09.20.00  
Fax 02.32.09.20.20

Z.I. DE VALDONNE - BP 4  
13124 PEYPIN  
Tél.: 04.42.32.41.41  
Fax 04.42.72.41.62

Carlo Erba Reagents S.r.l.  
Via R. Merendi, 22  
20010 Cornaredo (MI)  
Tel. 02 93 991 90 Fax 02 93 991 001

ISO 9001: 2008

## Certificate of Analysis

**1** **PRODUCT** : Sodium chloride ERBApharm-According to pharmacopoeia:  
Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP  
**2** **CODE** : 368253  
**3** **LOT N°** : V6C589176E **METHOD** : 6572  
**4** **EXPIRING DATE** : 2019/05 **EDITION** : 6

**5**

TEST	U.M.	SPECIFICATION	RESULT
Description	-	White crystalline powder	Conform
Identification	-	Positive	Positive
Appearance of solution	Ph.Eur.	Conform	Conform
Acidity or alkalinity	Ph.Eur.	Conform	Conform
Residue solvents	USP	Conform	Conform
Barium	Ph.Eur.	Conform	Conform
Iodide	Ph.Eur.	Conform	Conform
Ferrocyanide	Ph.Eur.	Conform	Conform
Nitrite	Ph.Eur.	Conform	Conform
Loss on drying	%	<= 0.5	0.04
Mg,alkal.earth met.(Ca)	ppm	<= 100	<100
Bromide	ppm	<= 100	<100
Phosphate	ppm	<= 25	<25
Heavy metals (Pb)	ppm	<= 3	<3
Sulphate	ppm	<= 200	<200
Al	ppm	<= 0.2	<0.2
As	ppm	<= 1	<1
Fe	ppm	<= 2	<2
K	ppm	<= 500	<500
Assay (argentimetric)	% s.s.	99.0 ÷ 100.5	100.3

**6**

**7**



Our products should be used in compliance with the current legislation, raw material for pharmaceutical uses included.

**11** **Approve Date** : 02/05/2016

Not signed electronically issued document

**QUALITY CONTROL RESPONSIBLE**  
**B. COULANGE (VDR)**

# MATERIAL SAFETY DATA SHEET

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**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 23.03.2016      Version number 3      Revision: 10.03.2016

Trade name: Acetonitrile

(Contd. of page 1)

**1.3 Details of the supplier of the substance**  
· **Manufacturer/Supplier:**  
CARLO ERBA REAGENTS  
Chaussée du Vexin  
Parc d'Affaires des Portes - BP614  
27106 VAL DE REUIL Cedex  
Téléphone: +02 32 09 20 00  
Télcopie: +02 32 09 20 20  
· **Further information obtainable from the supplier:**  
Q.A / Normative  
email: MSDS\_CER-SDS@cer.dgr.it  
· **1.4 Emergency telephone number:**  
France (ORFILA 24h/24) - Tel : +33 1 69 40 00 00  
Ireland - Tel : 00 353 1 8092568  
EU Tel : 112

Page 1/12

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Revision: 10.03.2016

Printing date 23.03.2016      Version number 3      Revision: 10.03.2016

Trade name: Acetonitrile

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**  
· **Molecular formula:** C<sub>2</sub>H<sub>3</sub>N  
· **Structure formula:** C<sub>2</sub>H<sub>3</sub>-C<sub>2</sub>N  
· **Trade name:** Acetonitrile  
· **MSDS number:** CH0080  
· **CAS Number:** 75-05-8  
· **EC number:** 200-835-2  
· **Index number:** 608-001-00-3  
· **Registration number:** 01-2119471307-38

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
· **Relevant identified uses of the substance or mixture:**  
Uses of substances as such or in preparations at industrial sites and offshore industries  
· **Uses advised against:**  
Uses of substances as such or in preparations at industrial sites and offshore industries

**1.3 Hazardous components**  
· **EC number:** 200-835-2  
· **Index number:** 608-001-00-3  
· **Registration number:** 01-2119471307-38

**1.4 Relevant identified uses of the substance or mixture and uses advised against**  
· **Relevant identified uses of the substance or mixture:**  
Uses of substances as such or in preparations at industrial sites and offshore industries  
· **Uses advised against:**  
Uses of substances as such or in preparations at industrial sites and offshore industries

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008**  
· **Classification:**  
Flam. Liq. 2 H22 Highly flammable liquid  
GHS02  
H302 Harmful if swallowed  
GHS07  
H312 Harmful to aquatic life  
GHS09  
H332 Harmful to aquatic life with prolonged exposure  
GHS09  
Eye Irrit. 2 H319 Causes serious eye irritation  
GHS07  
Acute Tox. 4 H332 Harmful to aquatic life with prolonged exposure  
GHS09  
Acute Tox. 4 H332 Harmful to aquatic life with prolonged exposure  
GHS09  
Eye Irrit. 2 H319 Causes serious eye irritation  
GHS07

**2.2 Label elements**  
· **Labelling according to Regulation (EC) No 1272/2008**  
**Hazard pictogram:**  
GHS02 GHS07  
· **Signal word:** Danger  
· **Precautionary statements:**  
H225 Highly flammable liquid, flash point below -20 °C  
H302+H312+H332 Harmful if swallowed, harmful to aquatic life  
H319 Causes serious eye irritation  
· **Precautionary statements:**  
P210 Keep away from heat, open flames, sparks, etc.  
P241 Use explosion protection (ventilated area; avoid breathing vapours)

**2.3 Other information**  
· **Other information:**  
No further relevant information available.

**SECTION 3: Environmental information**

**3.1 Environmental classification**  
· **Environmental classification:**  
Not classified

**3.2 Environmental fate**  
· **Environmental fate:**  
Not classified

**3.3 Environmental effects**  
· **Environmental effects:**  
Not classified

**3.4 Exposure scenarios**  
· **Exposure scenarios:**  
Not classified

**3.5 Environmental monitoring**  
· **Environmental monitoring:**  
Not classified

**3.6 Environmental protection measures**  
· **Environmental protection measures:**  
Not classified

**3.7 Environmental management**  
· **Environmental management:**  
Not classified

**3.8 Environmental assessment**  
· **Environmental assessment:**  
Not classified

**3.9 Environmental impact**  
· **Environmental impact:**  
Not classified

**3.10 Environmental consequences**  
· **Environmental consequences:**  
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**3.11 Environmental effects**  
· **Environmental effects:**  
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**3.12 Environmental effects**  
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**3.100 Environmental effects**  
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(Contd. on page 2)



Based on the new CLP classification system, CARLO ERBA Reagents provides a safety data sheet for each product in compliance with Article 31 of the REACH Regulation No. 1907/2006 and amended by Commission Regulation (EU) No. 453/2010 and Commission Regulation (EU) No. 830/2015.

All CARLO ERBA Reagents safety data sheets are updated quarterly and are available on its website: [www.carloerbareagents.com](http://www.carloerbareagents.com).



Sulla base del nuovo sistema di classificazione CLP, CARLO ERBA Reagents redige per ogni prodotto una scheda di sicurezza conforme all'articolo 31 del Regolamento n° 1907/2006 (REACH) ed ai successivi Regolamenti (UE) n°453/2010 e (UE) n° 830/2015.

Tutte le nostre schede di sicurezza vengono aggiornate quattro volte all'anno e sono disponibili sul nostro sito [www.carloerbareagents.com](http://www.carloerbareagents.com).



CARLO ERBA Reagents fournit, pour toutes les substances et préparations dangereuses, une fiche de données de sécurité, conformément à l'article 31 du règlement n°1907/2006 (REACH) et à l'annexe I du règlement (UE) n°453/2010 et n° 830/2015.

Toutes les fiches de données de sécurité, mises à jour 4 fois par an et ponctuellement si besoin, sont consultables sur le site [www.carloerbareagents.com](http://www.carloerbareagents.com).



Basándose en el nuevo sistema de clasificación CLP, CARLO ERBA Reagents dispone para cada producto de una ficha de seguridad conforme con el artículo 31 del Reglamento (CE) n° 1907/2006 (REACH) y con los sucesivos Reglamentos (UE) n°453/2010 y (UE) n° 830/2015.

Todas nuestras fichas de datos de seguridad, que pueden consultarse en nuestro sitio web [www.carloerbareagents.com](http://www.carloerbareagents.com), se actualizan cuatro veces al año.



Auf der Grundlage des neuen CLP Klassifizierungssystems erstellt CARLO ERBA Reagents für jedes Produkt ein Sicherheitsdatenblatt, das Artikel 31 der REACH-Verordnung 1907/2006 und den späteren EU-Verordnungen 453/2010 und 830/2015 entspricht.

Alle unsere Sicherheitsdatenblätter werden quartalsweise aktualisiert und stehen auf unserer Webseite [www.carloerbareagents.com](http://www.carloerbareagents.com) zur Verfügung.

# PACKAGING



The consequences of a shipping accident or one caused by mishandling hazardous chemical products can be critical for both the health of workers and for the environment. CARLO ERBA Reagents chooses packaging materials for its products that are best-suited to safeguarding the user, facilitating their use and reducing damage to a minimum in case of accidents during shipping. All packaging for hazardous chemicals is certified in compliance with international regulations and subjected to tests for chemical and physical compatibility to ensure optimal product quality over time.



Le conseguenze di un incidente nel trasporto o causato da errori nella manipolazione di un prodotto chimico pericoloso possono essere importanti sia per la salute degli operatori che per l'ambiente. CARLO ERBA Reagents sceglie per i propri prodotti i materiali di confezionamento più indicati per tutelare l'utilizzatore, agevolarne l'uso e ridurre al minimo i danni in caso di incidenti durante il trasporto. Tutti gli imballi dei prodotti chimici pericolosi sono omologati secondo le normative internazionali e sottoposti a prove di compatibilità chimico-fisica per garantire la qualità del prodotto nel tempo.



Les conséquences d'un incendie, d'une explosion, d'une inhalation de produits dangereux ou d'un accident de transport sont potentiellement importantes pour la santé humaine, les biens matériels et l'environnement. CARLO ERBA Reagents utilise des emballages adaptés permettant de limiter les impacts dans ces situations à hauts risques, homologués pour le transport des matières dangereuses (ADR, UN). CARLO ERBA Reagents propose donc une grande variété de types d'emballages sélectionnés en fonction des contraintes réglementaires, physico-chimiques et d'utilisation.



Las consecuencias de un accidente durante el transporte o debidas a errores en la manipulación de un producto químico peligroso pueden ser graves tanto para la salud de los operadores como para el medio ambiente. CARLO ERBA Reagents escoge para sus productos los materiales de envasado más indicados para proteger al usuario, facilitar su uso y reducir al mínimo los daños en caso de accidentes durante el transporte. Todos los envases de los productos químicos peligrosos están homologados según las normativas internacionales y han sido sometidos a pruebas de compatibilidad químico-física para garantizar la calidad del producto a lo largo del tiempo.



Unfälle, die durch den Transport oder durch Handhabung eines Gefahrstoffs entstehen, können schwere Folgen für die Gesundheit des Personals und die Umwelt haben. Die Verpackungen der Produkte von CARLO ERBA Reagents bestehen aus Materialien, die maximalen Schutz für das Personal bieten, einen einfachen Gebrauch gewährleisten und die Schäden bei Unfällen während des Transports auf ein Minimum reduzieren. Alle Verpackungen chemischer Gefahrstoffe sind nach Vorgabe internationaler Vorschriften typgeprüft und auf ihre chemische und physikalische Eignung getestet, um die Qualität des darin verpackten Produkts zu gewährleisten.



# PRODUCT SELECTION GUIDE

All our products are classified according to their purity grades and suitability for being used in classical or instrumental analytical fields or industrial preparations.

A color grade system assigned accordingly helps the customer to find the right product for each application.



## RS – Specific Grade Reagents

RS

High purity Solvents, Acids and Reagents specifically designed to be used in the following instrumental techniques:

- Metal Trace Analysis: Superpure Acids and Ultrapure Acids for sample mineralization, Standards Solutions for AAS, ICP-OES and ICP-MS for instrumental calibration
- Liquid Chromatography: Solvents suitable for UHPLC-MS, LC-MS, HPLC GOLD UltraGradient Grade, HPLC PLUS Gradient Grade, HPLC Isocratic Grade, HPLC Preparative, Ion Chromatography Standard Solution, Ion Pair Chromatography Reagents, Silica Gel for Chromatography available in different mesh size.
- Gas Chromatography: Solvents suitable for GC HEADSPACE, ATRASOL™ for organic trace analysis and PESTIPUR™ for residue analysis
- Spectroscopy UV-vis/IR: SPECTROSOL™ solvents
- Organic Synthesis: Anhydrous and Deuterated Solvents
- Karl Fischer: ERBAqua KF Reagents for coulometric & volumetric titration
- Food Analysis: Specific Reagents, acids, bases and Kjeldahl catalysts specific for food matrix analysis
- Microscopy: Fixatives, Solvents, Embedding media, Staining Solutions, Dyes, Mounting Media and Immersion Media specific for Histology, Hematology and Cytodiagnosis
- Conductivity: standard solutions
- Electronic Application: MOS, VLSI and RSE quality according to electronic production processes requirements
- Reference Standards: Density, Refractive index, Melting point, Osmolality, Brix, Colour

## RPE – Analytical Grade Reagents

RPE

Standard grade in the laboratory mostly compliant with ACS and/or ISO. Many products also comply with various pharmacopoeias, including BP, EP and USP for analytical purposes.

- Solvents, Acids, Salts, and a wide range of products are guaranteed for analytical purposes
- Volumetry: titrated solutions ready-to-use or concentrated in NORMEX vials
- pHmetry: pH buffer solutions with and without color indicator, available in different size and packaging
- Indicators: pure substances and ready to use indicating solutions all provided with their color index

## ERBApharm – Pharmaceutical grade Products

ERBApharm

Raw materials and/or excipients intended for the pharmaceutical production. For our ERBApharm grade pharmacopoeia products we specify level of compliance (e.g. according to pharmacopoeia: Ph.Eur.-USP-FU).

- Acids, Bases, Solvents, Salts, Organic and Inorganic substances according to Pharmacopoeia. A complete line of titrated solutions prepared with raw materials according to Pharmacopoeia.

## RE – Technical Grade Reagents

RE

Purified commercial products used in many chemicals laboratories and industries

- Acids, Bases, Solvents, Salts, Organic and Inorganic substances provided with guaranteed purity for the basic applications in the industry and laboratory

# HOW TO READ THE CATALOGUE

PRODUCT NAME

TRANSPORT CLASSIFICATION

## MET



### Methanol

Metanolo • Méthanol • Metanol

CH<sub>3</sub>OH

Molecular Weight: 32,04

CAS: 67-56-1

EEC-N: 200-659-6

#### Classification transport

ONU: 1230

Transport Hazard class: 3

Packing group II

INTERNATIONAL CLASSIFICATION

#### Methanol > RS - For LC/MS

Description ..... Clear colourless liquid

Colour ..... ≤ 10 APHA

Identification (I.R.) ..... Conform

Refractive index at 20°C ..... 1.327 ÷ 1.331

Water (K.F.) ..... ≤ 200 ppm

Residue on evaporation ..... ≤ 2 ppm

Acidity ..... ≤ 0.0003 meq/g

Alkalinity ..... ≤ 0.00006 meq/g

Assay (GLC) ..... ≥ 99.9%

#### Transmission UV (1cm, ref water)

At 210 nm ..... ≥ 30%

At 225 nm ..... ≥ 60%

At 235 nm ..... ≥ 80%

At 250 nm ..... ≥ 90%

APPLICATION

Code	Size	Packaging
414831	1 l	Glass bottle
414832	2.5 l	Glass bottle

**Filtered through 0.1 µm membrane. Suitable for ULC-MS**

PRODUCT CODE

#### Methanol > RS - For HPLC - GOLD - Ultragradient

Description ..... Clear liquid

Identification ..... Positive

Colour (APHA) ..... ≤ 10

Density at 20°C ..... 0.7910 ÷ 0.7930

Refractive index at 20°C ..... 1.3270 ÷ 1.3300

Distillation range ..... 64.1 ÷ 65.1 °C

Water (K.F.) ..... ≤ 0.02 %

Residue on evaporation ..... ≤ 5 ppm

Carbonyl compounds (CH<sub>3</sub>COCH<sub>3</sub>) ..... ≤ 2 ppm

Substances reducing KMnO<sub>4</sub> (O) ..... ≤ 2 ppm

Acidity ..... ≤ 0.0003 meq/g

Alkalinity ..... ≤ 0.00006 meq/g

Ethanol ..... ≤ 5 %

Code	Size	Packaging
412721	1 l	Glass bottle
	2.5 l	

COMMERCIAL INFORMATION

UNIT SIZE

PACKAGING






Since the chemical specifications of our products are subject to change, for technical evaluations please see the updated specifications on our website at [www.carloerbareagents.com](http://www.carloerbareagents.com).

DANGER CLASSIFICATION      SYNONYM

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Synonym:  
*Methyl alcohol*

**Danger**  
  H225-H301-H311-H331-H370  
 P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

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SPECIFICATIONS

# NEW PRODUCTS

More than 600 new items including:

**UHPLC-MS range:**  
guaranteeing lot to lot  
consistency

**GC-Headspace  
range:** for organic  
volatile impurities  
analysis

**MTHP**  
(4-Methyltetrahydropyran):  
an alternative to THF

**Analytical standards  
according to  
Pharmacopoeia for UV  
spectrophotometry  
and for ICP**

**ERBAqua range:**  
or Karl Fischer  
volumetric and  
coulometric analysis

**Standards for Color,  
Density, Refractive  
Index, Osmolality  
analysis**

**A wider choice  
of packaging suitable  
for your needs**

# PRODUCT APPLICATIONS



# Tailor made

## Chemicals such as you imagine



CARLO ERBA Reagents draws on its vast experience and production flexibility to manufacture tailor-made products for the industry and laboratories.

- Custom mixture
- Purification
- Custom packaging
- Deliveries in bulk tanks and isotanks
- Shuttle service
- Analytical control
- Batch management
- Quality assurance



DASITGROUP

**CARLO ERBA**

REAGENTS

[www.carloerbareagents.com](http://www.carloerbareagents.com)





## LIQUID CHROMATOGRAPHY

Leader in the market of solvents for chromatography and trace analysis, CARLO ERBA Reagents extended its range of solvents for HPLC in order to satisfy the ever increasing demand requirements in terms of equipment and detection methods, particularly for impurities which, by interaction, can affect the result's reliability.

Our solvents for HPLC meet perfectly the requirements of this analytical technique by guaranteeing the optimal specifications on the following elements: purity, non-volatile residue content and UV transmission.

### UHPLC-MS Solvents

The UHPLC-MS is certainly the chromatographic technique for users who, besides being on the lookout for the best analytical performances, works at very high pressure, with minimum solvent consumption and guarantee of resolution and reproducibility of results. CARLO ERBA Reagents, recognized as a leading company in the manufacture of solvents for chromatography, is always attuned to the market needs and has developed a specific range of solvents dedicated to solvents for UHPLC-MS in order to meet the quality requirements of this refined analytical technique.

Our solvents are characterized by:

- Purity higher than 99.95 %
- High UV transmittance
- Excellent baseline quality in gradient, tested specifically for UHPLC
- Test with reserpine (30 < ppb), specific for LCMS
- Low content in inorganic and metallic ions
- Non volatile residue content less than 1 ppm
- Filtration at least 0.2 or 0.1  $\mu\text{m}$
- Packaged in amber glass bottles pretreated with 1.1-difluoroethane to reduce significantly the potential formation of metals adduct

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412041	129
Acetonitrile		2.5 l	412042	129
Methanol		1 l	414941	455
Methanol		2.5 l	414942	455
Water		1 l	412091	728
Water		2.5 l	412092	728

### LC-MS Solvents

Liquid chromatography coupled with mass spectrometry is a recently developed technique which is suitable for the analysis of fairly polar, non-volatile and thermally stable compounds. It allows the separation and characterization of many more compounds than GC-MS chromatography and also provides information on the molecular weight and structure of the HPLC peaks. The significant advantages of this combined technique has led to its widespread use in many analytical fields, particularly in the pharmaceutical, environmental and biotechnological sectors.

CARLO ERBA Reagents guarantees specifications of a high-performance LC-MS solvents:

- High purity, low acidity, alkalinity and residue, ideal fluorescence, absorbance/transmittance and gradient test
- Low metal content, in the order of ppb, in order to prevent interactions with ionized species in the mass analyzer
- LC-MS suitability: no signal is greater than the molecular peak of reserpine (609 amu) at the concentration of 30 ppb, in a range from 50 to 2000 amu
- Packaged in amber glass bottles pretreated with 1.1-difluoroethane to reduce significantly the potential formation of metals adduct

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412341	129
Acetonitrile		2.5 l	412342	129
Ethyl acetate		1 l	448383	320
Ethyl acetate		2.5 l	448384	320
Methanol		1 l	414831	455
Methanol		2.5 l	414832	455
Propan-2-ol		1 l	415183	573
Propan-2-ol		2.5 l	415184	573
Water		1 l	412111	728
Water		2.5 l	412112	728

### LC-MS Acids, Salts and Blends

CARLO ERBA Reagents proposes a wide range of acids and salts, specifically tested for LC-MS coupling, in addition to ready-to-use blends solutions among the most used mobile phases.

Description	Notes	Size	Code	Page
Acetic acid glacial		10 x 1 ml	401411	118
Acetic acid glacial		10 x 2.5 ml	401412	118
Acetic acid glacial		50 ml	401413	118
Acetic acid glacial		1 l	401414	118
Acetonitrile + 0.1% v/v formic acid		1 l	412331	132
Acetonitrile + 0.1% v/v formic acid		2.5 l	412332	132
Acetonitrile + 0.1% v/v trifluoroacetic acid		1 l	412321	132
Acetonitrile + 0.1% v/v trifluoroacetic acid		2.5 l	412322	132
Ammonium acetate		50 g	418781	152
Ammonium formate		50 g	419741	158
Formic acid 99%		10 x 1 ml	405821	340
Formic acid 99%		10 x 2.5 ml	405822	340
Formic acid 99%		50 ml	405823	340
Formic acid 99%		1 l	405824	340
Methanol + 0.1% v/v formic acid		1 l	414861	459
Methanol + 0.1% v/v formic acid		2.5 l	414862	459
Methanol + 0.1% v/v trifluoroacetic acid		1 l	414871	459
Methanol + 0.1% v/v trifluoroacetic acid		2.5 l	414872	459
Trifluoroacetic acid		10 x 1 ml	411541	715
Trifluoroacetic acid		10 x 2.5ml	411542	715
Trifluoroacetic acid		50 ml	411543	715
Water + 0.1% v/v formic acid		1 l	412121	730
Water + 0.1% v/v formic acid		2.5 l	412122	730

## HPLC Ultragradient Grade Solvents

The gradient control of elution and drift at critical wavelengths of our HPLC solvents, Gold UltraGradient and Plus Gradient Grade, guarantee a peak free baseline. Their optimal sensitivity allows you to evaluate in the best possible way the impurities of your samples. To make sure that no particle in the mobile phase will hinder your analyses, we carry out a microfiltration of our GOLD solvents at 0.1 µm and for HPLC Gradient Plus at 0.2 µm.

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412371000	130
Acetonitrile		2.5 l	412372000	130
Acetonitrile		4 l	412374	130
Methanol		1 l	412721	455
Methanol		2.5 l	412722	455
Methanol		4 l	412724	455

## HPLC Gradient Grade Solvents

The solvents of this product line guarantee excellent short-wavelength performance and limited drift, which makes them ideal for gradient and trace analysis.

Description	Notes	Size	Code	Page
Acetonitrile		1 l	412393	130
Acetonitrile		1 l	412391000	130
Acetonitrile		2.5 l	412392000	130
Acetonitrile		5 l	412395	130
Ethanol absolute anhydrous	Only for Italian market	1 l	412701	311
Ethanol absolute anhydrous	Only for Italian market	1 l	412703	311
Ethanol absolute anhydrous		1 l	4127012	311
Ethanol absolute anhydrous		1 l	4127032	311
Ethanol absolute anhydrous	Only for Italian market	2.5 l	412702	311
Ethanol absolute anhydrous		2.5 l	4127022	311
Methanol		1 l	412381	455

Description	Notes	Size	Code	Page
Methanol		2.5 l	412383	455
Propan-2-ol		1 l	412711000	573
Propan-2-ol		2.5 l	412712000	573
Water		1 l	412141	728
Water		2.5 l	412142	728

## HPLC Isocratic Grade Solvents

This is a line of solvents which, due to their high purity and strictly controlled chemical-physical parameters, adequately meet the needs of modern analytical HPLC.

Available in glass bottles (1l and 2.5l) or stainless steel shuttle drums (5 to 1000l), their characteristics satisfy the requirements of the most advanced HPLC techniques.

Description	Notes	Size	Code	Page
Acetic acid glacial		1 l	401431	118
Acetic acid glacial		2.5 l	401432	118
Acetone		1 l	412501	126
Acetone		2.5 l	412502	126
Acetonitrile		1 l	412411000	130
Acetonitrile		2.5 l	412412000	130
Butanol-1		1 l	412511000	212
Butanol-1		2.5 l	412512000	212
n-Butyl chloride		1 l	431821	216
tert-Butylmethylether		1 l	432031	216
tert-Butylmethylether		2.5 l	432032	216
Chloroform		1 l	412571	245
Chloroform		2.5 l	412572	245
Chloroform		1 l	412652	246
Chloroform		2.5 l	412653	246
Cyclohexane		1 l	412431000	269
Cyclohexane		2.5 l	412432000	269
1,2-Dichloroethane		1 l	447191	280
1,2-Dichloroethane		2.5 l	447192	280
Dichloromethane		1 l	412621000	281
Dichloromethane		2.5 l	412622000	281
Dichloromethane		1 l	412662	282
Dichloromethane		2.5 l	412661	282
Diethyl ether		1 l	412671	289
Diethyl ether		2.5 l	412672	289
n,n-Dimethylformamide		1 l	444981	295
n,n-Dimethylformamide		2.5 l	444982	295
Dimethylsulphoxide		1 l	445141	298
Dimethylsulphoxide		2.5 l	445142	298
1,4-Dioxane		1 l	443231	301
Ethanol absolute anhydrous	Only for Italian market	1 l	412521	311
Ethanol absolute anhydrous		1 l	4125212	311
Ethanol absolute anhydrous	Only for Italian market	2.5 l	412522	311
Ethanol absolute anhydrous		2.5 l	4125222	311
Ethanol 96°		1 l	4145412	314
Ethanol 96°		2.5 l	4145422	314
Ethanol 96°	Only for Italian market	1 l	414541	314
Ethanol 96°	Only for Italian market	2.5 l	414542	314
Ethyl acetate		1 l	412611000	320

Description	Notes	Size	Code	Page
Ethyl acetate		2.5 l	412612000	320
n-Heptane 99%		1 l	412591000	357
n-Heptane 99%		2.5 l	412592000	357
n-Heptane		1 l	446831	358
n-Heptane		2.5 l	446832	358
n-Hexane 99%		1 l	412691	361
n-Hexane 99%		2.5 l	412692	361
n-Hexane		1 l	412601000	363
n-Hexane		2.5 l	412602000	363
Hexane mixture of isomers		1 l	412632	364
Hexane mixture of isomers		2.5 l	412631	364
Isohexane		1 l	445152	410
Isohexane		2.5 l	445151	410
Isooctane		1 l	412441000	411
Isooctane		2.5 l	412442000	411
Methanol		1 l	412531	456
Methanol		1 l	412533	456
Methanol		2.5 l	412532	456
Methanol		2.5 l	412535	456
Methyl acetate		2.5 l	P0043721	462
2-Methyltetrahydrofuran		1 l	412681	470
2-Methyltetrahydrofuran		2.5 l	412682	470
n-Pentane		1 l	P0643716	513
n-Pentane		2.5 l	P0643721	513
Propan-1-ol		1 l	412541000	572
Propan-1-ol		2.5 l	412542000	572
Propan-2-ol		1 l	412821	574
Propan-2-ol		1 l	412421000	574
Propan-2-ol		2.5 l	412422000	574
Tetrahydrofuran		1 l	412451000	693
Tetrahydrofuran		1 l	412453000	693
Tetrahydrofuran		2.5 l	412452000	693
Tetrahydrofuran		1 l	412471	694
Tetrahydrofuran		2.5 l	412472	694
Toluene		1 l	412641000	707
Toluene		2.5 l	412642000	707
Triethylamine		1 l	489631	714
Triethylamine		2.5 l	489633	714

## HPLC Preparative Solvents

Our range of solvents for HPLC preparative have been designed to satisfy the requirements of separations and purifications. Their low non-volatile residue content (from 5 to 10 ppm maximum) allows to optimize the operation conditions and to make impurity-free preparations. All these solvents are available in 2.5 l bottles and in stainless steel shuttle drums from 5 to 1 000 l.

Description	Notes	Size	Code	Page
Acetonitrile		2.5 l	412409	130
tert-Butylmethylether		2.5 l	432022000	217
Chloroform		2.5 l	438641	246
Dichloromethane		2.5 l	463281	282
Dichloromethane		2.5 l	463291	282
Ethyl acetate		2.5 l	448211	320
Propan-2-ol		2.5 l	415112	574



Description	Notes	Size	Code	Page
Tetrahydrofuran		2.5 l	487352	694
Toluene		2.5 l	488531	708

## Silica Gel and Filter aids

Besides the widely used silica gel, other products with particular characteristics are also available and offer a series of valid alternatives for resolving numerous separation problems.

Description	Notes	Size	Code	Page
Aluminum oxide (acid)		250 g	417185	142
Aluminum oxide (acid)		1 kg	417182	142
Aluminum oxide (basic)		100 g	417214	142
Aluminum oxide (basic)		1 kg	417217	142
Aluminum oxide (neutral)		250 g	417245	143
Aluminum oxide (neutral)		1 kg	417241	143
Aluminum oxide (neutral)		2.5 kg	417248	143
Aluminum oxide activated		1 kg	312261	143
Calcium carbonate		250 g	433245	223
Cellulose, powder		250 g	436061	236
Charcoal activated		250 g	434455	241
Charcoal activated		1 kg	434454	241
Dicalite 4158		500 g	P8880014	278
Dicalite 4158		1 kg	P8880017	278
Dicalite 4158		5 kg	P8880027	278
Florisil 100-200 mesh		100 g	452351	334
Florisil 100-200 mesh		500 g	452353	334
Florisil 60-100 mesh		100 g	452331	334
Florisil 60-100 mesh		500 g	452333	334
Florisil 60-100 mesh		1 kg	452332	334
Florisil 60-100 mesh		100 g	452271	335
Florisil 60-100 mesh		500 g	452273	335
Kieselguhr composed		250 g	449895	419
Kieselguhr composed		1 kg	449897	419
Magnesium oxide		1 kg	459617	441
Sand purified		1 kg	477153	594
Silica gel 60A 6 - 35 $\mu$		1 kg	P2010017	597
Silica gel 60A 6 - 35 $\mu$		5 kg	P2010027	597
Silica gel 60A 6 - 35 $\mu$		25 kg	P2010044	597
Silica gel 60A 20 - 45 $\mu$		1 kg	P2200017	598
Silica gel 60A 20 - 45 $\mu$		5 kg	P2200027	598
Silica gel 60A 35 - 70 $\mu$		1 kg	P2000017	598
Silica gel 60A 35 - 70 $\mu$		2 kg	P2000026	598
Silica gel 60A 35 - 70 $\mu$		5 kg	P2000027	598
Silica gel 60A 35 - 70 $\mu$		25 kg	P2000044	598
Silica gel 60A 40 - 63 $\mu$		1 kg	P2050017	598
Silica gel 60A 40 - 63 $\mu$		5 kg	P2050027	598
Silica gel 60A 40 - 63 $\mu$		25 kg	P2050044	598
Silica gel 60A 70 - 200 $\mu$		1 kg	P2100017	599
Silica gel 60A 70 - 200 $\mu$		2 kg	P2100026	599
Silica gel 60A 70 - 200 $\mu$		5 kg	P2100027	599
Silica gel 60A 70 - 200 $\mu$		25 kg	P2100044	599
Silica gel 60A 0,06 $\pm$ 0,20 mm		500 g	453336	599
Silica gel 60A 0,06 $\pm$ 0,20 mm		5 kg	453332	599



Broad spectrum chemical analysis of trace level components is a continuing challenge for any analytical chemist. This challenge is further confounded when chemical impurities may be present in common organic solvents or when chemical artifacts may be formed, produced and introduced during an analytical procedure. Minimizing and understanding these chemical artifacts is critical for trace level detection and is crucial for accurate analytical conclusions.

CARLO ERBA Reagents GC Solvents are the right choice for your complex mixture challenges.

## Head Space Solvents

The operating principle of this technique is based on the chromatographic analysis of the vapor phase in thermodynamic equilibrium above the sample enclosed in a sealed container.

Analysis of residue solvents using GC Heaspace techniques, has become a major control procedure in pharmaceutical and food related industries. CARLO ERBA Reagents has recently developed solvents specifically tested for GC-HS applications. Their purity and handling specifications meet the requirements of the latest Pharmacopoeia guidelines for the residual solvent content in pharmaceutical products.

Description	Notes	Size	Code	Page
n,n-Dimethylformamide		1 l	444991	295
Dimethylsulphoxide		1 l	445121	298
Water		1 l	412011	728

## PESTIPUR® Solvents for pesticides residue analysis

The control of pesticide residues in the food and environmental sectors is remarkably important today, as these substances represent a potential public health hazard.

The purity of the solvent is a determinant factor in obtaining reliable results. Thus it is essential to have products available with suitable parameters for this type of application.

To meet these needs, CARLO ERBA Reagents offers its PESTIPUR® line of solvents, specific for the extraction of pesticides and the analysis of chlorinated and nitrogenous residues, even at trace levels.

Our products are prepared according to the most advanced distillation techniques and strictly controlled in order to guarantee the highest level of quality.

Various functionality tests ensure a stable base line in gas chromatography.

For the entire PESTIPUR® line, the absence of critical impurities is ensured by means of precise functionality tests:

- GC-ECD = 3 ng/l in the retention time window between 1,2,4-trichlorobenzene and mirex with lindane standard
- GC-NPD = 3 ng/l in the retention time window between Atrazine and Coumaphos with ethylparathion standard

Description	Notes	Size	Code	Page
Acetone		1 l	400991	126
Acetone		2.5 l	400992000	126
Acetonitrile		1 l	401241	131
Acetonitrile		2.5 l	401242	131
tert-Butylmethylether		1 l	432061	217
tert-Butylmethylether		2.5 l	432062	217
Chloroform		1 l	438681	246
Chloroform		2.5 l	438682	246
Chloroform		1 l	438651	246
Chloroform		2.5 l	438652	246
Cyclohexane		1 l	436931	270
Cyclohexane		2.5 l	436932	270
Dichloromethane		1 l	442291	282
Dichloromethane		2.5 l	442292000	282
Dichloromethane		1 l	442261	283
Dichloromethane		2.5 l	442262	283
Diethyl ether		1 l	447651	289
Diethyl ether		2.5 l	447652	289
n,n-Dimethylformamide		1 l	444941	296
Ethyl acetate		1 l	448351	320
Ethyl acetate		2.5 l	448352000	320
n-Heptane 99%		1 l	446951	357
n-Heptane 99%		2.5 l	446952	357

Description	Notes	Size	Code	Page
Heptane mixture of isomers		1 l	446841	359
Heptane mixture of isomers		2.5 l	446842	359
n-Hexane 99%		1 l	447111	362
n-Hexane 99%		2.5 l	447112000	362
n-Hexane		1 l	447011	363
n-Hexane		2.5 l	447012	363
Hexane mixture of isomers		1 l	447181	364
Hexane mixture of isomers		2.5 l	447182	364
Isohexane		1 l	447131	410
Isohexane		2.5 l	447132	410
Isooctane		1 l	456791	411
Isooctane		2.5 l	456792	411
Methanol		1 l	414930	456
Methanol		2.5 l	414932	456
n-Pentane		1 l	468161	513
n-Pentane		2.5 l	468162	513
Petroleum ether 40 - 65°C		1 l	447851	520
Petroleum ether 40 - 65°C		2.5 l	447852	520
Petroleum ether 35 - 60°C		1 l	447862	522
Petroleum ether 35 - 60°C		2.5 l	447861	522
Propan-2-ol		1 l	415281	574
Toluene		1 l	488591	708
Toluene		2.5 l	488592	708

## ATRASOL® Solvents for the detection of traces in organic compounds and hydrocarbons

Specific solvents for gas chromatographic analysis of trace pollutants.

Rigorous gas chromatographic controls and extreme operation accuracy in both production and packaging make these the best-suited solvents in gas chromatography for all determinations of traces of organics requiring extreme precision and sensitivity.

High purity, guaranteed absence of extraneous peaks in gas chromatographic determinations and guarantee of reproducibility and repeatability of the result are the main feature of this line.

Furthermore, for all the ATRASOL® solvents, the absence of critical impurities is ensured by means of precise functionality tests:

- GC-ECD = 3 ng/l in the retention time window between 1,2,4-trichlorobenzene and mirex with lindane standard
- GC-FID = 5 µg/l in the retention time window beyond toluene with hexadecane standard

Description	Notes	Size	Code	Page
Acetone		1 l	P0053216	126
Acetone		2.5 l	P0053221	126
Chloroform		1 l	P02432E16	246
Chloroform		2.5 l	P02432E21	246
Dichloromethane		1 l	P02932A16	282
Dichloromethane		2.5 l	P02932A21	282
Dichloromethane		1 l	P02932E16	282
Dichloromethane		2.5 l	P02932E21	282
n,n-Dimethylformamide		1 l	P0343216	295
n,n-Dimethylformamide		2.5 l	P0343221	295
Dimethylsulphoxide		1 l	P0353216	298
Dimethylsulphoxide		2.5 l	P0353221	298
Ethyl acetate		1 l	P0023216	320
Ethyl acetate		2.5 l	P0023221	320
n-Hexane 99%		1 l	P052323016	361
n-Hexane 99%		2.5 l	P052323021	361
Methanol		1 l	P0933216	456
Methanol		2.5 l	P0933221	456

Description	Notes	Size	Code	Page
n-Pentane 99%		1 l	P064323016	512
n-Pentane 99%		2.5 l	P064323021	512
Toluene		1 l	P0713216	708
Toluene		2.5 l	P0713221	708

## ATRASOL ®Solvents for Hydrocarbon index determination according to EN ISO 9377-2

The European regulation UNI ISO 9377-2 "Determination of hydrocarbon oil index - Method using solvent extraction and gas chromatography", established the criteria for the evaluation of the hydrocarbon index in water using gas chromatography. This procedure is suitable for surface water, wastewater and water from sewage treatment plants.

CARLO ERBA Reagents offer suitable extraction solvents, with their boiling range between 56 and 69°C.

Each production lot is specifically analyzed so that the hydrocarbon index is less than or equal to 0.1 mg/l, in the retention time window between n-decane and n-tetracontane.

Description	Notes	Size	Code	Page
n-Hexane		1 l	P0523216	363
n-Hexane		2.5 l	P0523221	363
Isohexane		1 l	P6263216	410
Isohexane		2.5 l	P6263221	410
n-Pentane		1 l	P0643216	513
n-Pentane		2.5 l	P0643221	513
Petroleum ether 35 - 60°C		1 l	P0883216	521
Petroleum ether 35 - 60°C		2.5 l	P0883221	521
Standard Mixture for hydrocarbon analysis	Standard quality control of two mineral oils in acetone	1 ml	506002	660
Standard Mixture for hydrocarbon analysis	Mixture of mineral oil without additive 2 to 5 mg / ml each in hexane	1 ml	506010	660
Standard Mixture for hydrocarbon analysis	Standard mixture of n-alkanes (C10 to C40 in pairs) of 50 mcg / ml each in hexane	1 ml	506020	660
Standard Mixture for hydrocarbon analysis	N-tetracontane mixture (20 mg / l) and n-decane (20 mg / l) in hexane	5 ml	506040	660
Standard Mixture for hydrocarbon analysis	Mixture of mineral oil without additive 2 to 1 mg / ml each in hexane	10 ml	506011	660
Standard Mixture for hydrocarbon analysis	Mother solution stearyl stearate 2 g / l in hexane	10 ml	506030	660



## ION PAIR CHROMATOGRAPHY

Ion Pair Chromatography was developed to allow the separation of complex mixtures of polar and ionic molecules, which often are not well separated by ion exchange chromatography. The selectivity is determined by the mobile phase: the organic eluent is supplemented with a specific ion-pairing reagent. The IPC reagents are large ionic molecules having a charge opposite to the targeted analyte, as well as a hydrophobic region to interact with the stationary phase. The counter-ion combines with the ions of the eluent, becoming ion pairs in the stationary phase. Ion pairs are then separated on Reverse-phase HPLC columns.

### Reagents for Ion Pair Chromatography

Derivatives can be used to solve common analytical problems related to ionic or polarized products in chromatography. The following reagents are additives for the mobile phase that allow the separation in reversed-phase HPLC of ionic or highly polar substances (counter-ion tetraalkylammonium for anionic electrolytes, alkyl or aryl sulfonate for cationic electrolytes).

Benefits of CARLO ERBA ion-pair reagents are:

- The purity of the mobile phase and therefore the accuracy of the results depend on the quality of the additive
- The specifications of our ion pair reagents are in line with the requirements of Reverse-phase HPLC: high purity  $\geq 99\%$ , minimum UV absorption in the far UV, controlled pH and minimum loss on drying

Description	Notes	Size	Code	Page
1-Butanesulfonic acid sodium salt		25 g	405631	212
1-Butanesulfonic acid sodium salt		100 g	405632	212
1-Decanesulfonic acid sodium salt		25 g	405871	273
1-Decanesulfonic acid sodium salt		100 g	405872	273
1-Dodecanesulfonic acid sodium salt		25 g	405881	304
1-Dodecanesulfonic acid sodium salt		100 g	405882	304
Dodecyltrimethylammonium bromide		25 g	405941	305
Dodecyltrimethylammonium bromide		100 g	405942	305
1-Heptanesulphonic acid sodium salt		25 g	405851	359
1-Heptanesulphonic acid sodium salt		100 g	405852	359
1-Hexanesulphonic acid sodium salt		25 g	405621	365
1-Hexanesulphonic acid sodium salt		100 g	405622	365
1-Hexanesulphonic acid sodium salt monohydrate		25 g	405921	366
1-Hexanesulphonic acid sodium salt monohydrate		100 g	405922	366
1-Octanesulphonic acid sodium salt		25 g	405861	501
1-Octanesulphonic acid sodium salt		100 g	405862	501
1-Octanesulphonic acid sodium salt		1 kg	405863	501
1-Octanesulfonic acid sodium salt monohydrate		25 g	405931	501
1-Octanesulfonic acid sodium salt monohydrate		100 g	405932	501
1-Pentanesulphonic acid sodium salt		25 g	405841	514
1-Pentanesulphonic acid sodium salt		100 g	405842	514
1-Pentanesulphonic acid sodium salt monohydrate		25 g	405891	514
1-Pentanesulphonic acid sodium salt monohydrate		100 g	405892	514
1-Propanesulfonic acid sodium salt		25 g	405901	577
1-Propanesulfonic acid sodium salt		100 g	405902	577
Tetrabutylammonium bisulfate		25 g	405971	691
Tetrabutylammonium bisulfate		100 g	405972	691



Ion chromatography is a widely used technique that separates ions and polar molecules based on their affinity to the ion exchanger. It is often used in protein purification and water analysis. It works on almost any kind of charged molecule—including large proteins, small nucleotides, and amino acids.

## Standard Solutions for Ion Chromatography

Our standard solutions for ion chromatography are obtained by dissolution of a high-purity salt (+99.9%) in water.

They are characterized by:

- Concentrations equal to 1000 ppm;
- Guaranteed titer with its uncertainty;
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials;
- Available in HDPE bottles;
- Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;
- Shelf life, for the unopened product package, of 2 years.

Description	Notes	Size	Code	Page
Ammonium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503311	152
Ammonium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503313	152
Bromate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503171	197
Bromate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503173	197
Bromide standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503211	198
Bromide standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503213	198
Calcium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503221	222
Calcium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503223	222
Calcium standard solution	conc. 1.000 ppm Matrix : Water and nitric acid	500 ml	503389	222
Chlorate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503181	243
Chlorate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503183	243
Chloride standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503231	243
Chloride standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503233	243
Chlorite standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503191	243
Chlorite standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503193	243
Chromate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503241	250
Chromate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503243	250
Cyanide standard solution	conc. 1.000 ppm Matrix : Water and nitric acid	100 ml	503358	269
Fluoride standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503251	336
Fluoride standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503253	336
Iodide standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503261	396
Iodide standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503263	396
Lithium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503281	431
Lithium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503283	431
Magnesium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503291	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503293	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Water and nitric acid	500 ml	503390	437
Nitrate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503331	491
Nitrate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503333	491
Nitrite standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503321	497
Nitrite standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503323	497
Phosphate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503341	528
Phosphate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503343	528
Potassium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503271	536
Potassium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503273	536
Sodium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503301	610
Sodium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503303	610

Description	Notes	Size	Code	Page
Strontium standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503361	668
Sulfate standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503351	673
Sulfate standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503353	673

## Concentrated mobile phases for Ion Chromatography

The following eluents are filtered at 0.2µm and prepared from ultra-pure salts and 18-megaohm deionized water. These are concentrated solutions that should be diluted by a factor of 100. The shelf life for the unopened product package is 2 years.

Description	Notes	Size	Code	Page
Eluent sodium bicarbonate	0.17 M Sodium bicarbonate	100 ml	504534	307
Eluent sodium bicarbonate	0.5 M Sodium bicarbonate	1 l	507578	307
Eluent sodium carbonate	0.1 M Sodium bicarbonate	1 l	507695	307
Eluent sodium carbonate	0.5 M Sodium carbonate	100 ml	504533	307
Eluent sodium carbonate	0.5 M Sodium carbonate	1 l	507577	307
Eluent sodium carbonate/sodium bicarbonate	0.18 M Sodium carbonate / 0.17 M Sodium bicarbonate	100 ml	504530	307
Eluent sodium carbonate/sodium bicarbonate	0.22 M Sodium carbonate / 0.28 M Sodium bicarbonate	100 ml	504531	307
Eluent sodium carbonate/sodium bicarbonate	0.35 M Sodium carbonate / 0.1 M Sodium bicarbonate	100 ml	504532	307



## TRACE METAL ANALYSIS

In choosing the most appropriate analytical method to determine metals, each laboratory must consider the sample type and concentration levels, the number of elements to be determined and the costs the choice implies.

As a result, flame and graphite furnace atomic absorption spectrophotometry (AA) and inductively coupled plasma (ICP and ICP-MS) emission spectrometry are the most widely used analytical methods for determining trace elements.

Instrumental analysis, using ICP or AA, generally involves a preliminary treatment of the sample. This operation, known as acid mineralization, consists in a digestion process with hot concentrated acid in order to extract the elements of interest. CARLO ERBA Reagents offers two specific complete range of products (acids, bases and water) for sample and blank preparation. The purity of these products guarantees maximum reliability of the result.

### Superpure Acids for trace metal analysis at ppb level

SUPEPURE range is characterized by blank values generally between 0.5 and 1 ppb, for the 60-plus declared impurities.

They are produced using the most advanced sub-boiling distillation techniques, in special equipment made of quartz or Teflon and packaged in a controlled environment.

In order to minimize the possibility for contamination of the resultant distillate, the packaging is performed in a clean room. They are available in a wide variety of molecules and sizes.

Description	Notes	Size	Code	Page
Acetic acid glacial		500 ml	401405	119
Acetic acid glacial		1 l	401406	119
Acetic acid glacial		2.5 l	401407	119
Ammonia solution 20 - 22 %		500 ml	420175	150
Hydrochloric acid 34-37%		500 ml	403915	372
Hydrochloric acid 34-37%		1 l	403916	372
Hydrochloric acid 34-37%		2.5 l	403917	372
Hydrochloric acid 29 - 31 %		1 l	403921	373
Hydrofluoric acid 47-51%		500 ml	405716	385
Nitric acid 67-70%		500 ml	408115	492
Nitric acid 67-70%		1 l	408116	492
Nitric acid 67-70%		2.5 l	408117	492
Perchloric acid 65-71%		1 l	409193	515
Sulfuric acid 93-98%		500 ml	410405	678
Sulfuric acid 93-98%		1 l	410406	678
Sulfuric acid 93-98%		2.5 l	410407	678

### Ultrapure Acids for trace metal analysis at ppt level

ULTRAPURE range is characterized by blank values generally between 50 and 1 ppt, for the 60-plus declared impurities. This extreme level of purity is obtained using the double sub-boiling distillation process and preserved in Teflon packaging, preconditioned with hot acid for at least one week.

Description	Notes	Size	Code	Page
Acetic acid glacial		500 ml	401361	118
Ammonia solution 20 - 22 %		500 ml	420161	149
Hydrochloric acid 32-35%		500 ml	403891	372
Hydrofluoric acid 47-51%		500 ml	405611	385
Hydrogen peroxide solution 30-32%		500 ml	412051	387
Nitric acid 67-69%		500 ml	408051	493
Sulfuric acid 93-98%		500 ml	410351	678
Water		500 ml	412185	729

### Standard solutions 1.000 ppm for AAS

Atomic absorption is the most sensitive technique available to analysts for the determination of metal impurities. It is a technique based on a sequential system which is generally slow but achieves sensitivity limits unattainable with other instrumental techniques.

The following ready-to-use standard single-element solutions are obtained by dissolution of the metal, at a purity level of 99.9%, in hydrochloric acid.

They are characterized by:

- Concentration of the metal equal to 1.000 ppm



- Available in 100ml and 500ml bottles in polyethylene or glass depending on compatibility
- Certificate of analysis with references on the N.I.S.T. Standard Reference Materials and uncertainty
- Shelf life, for the unopened product package, of 2 years

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504190	139
Aluminum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497405	139
Aluminum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497401	139
Aluminum standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504186	139
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497415	169
Antimony standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507525	169
Antimony standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	507479	169
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497411	169
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504439	172
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507496	172
Barium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507527	178
Barium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497445	178
Barium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507481	178
Barium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497441	178
Beryllium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	506941	190
Beryllium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507497	190
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507528	191
Bismuth standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497455	191
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507482	191
Bismuth standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497451	191
Boron standard solution	conc. 1.000 ppm Matrix : Water	100 ml	E497465	196
Boron standard solution	conc. 1.000 ppm Matrix : Water	500 ml	E497461	196
Calcium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497485	222
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507530	222
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507476	222
Calcium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497481	222
Cerium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507531	237
Cerium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507498	237
Cesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507532	240
Cesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507499	240
Chromium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497505	251
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504195	251
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507485	251
Chromium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497501	251
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507533	257
Cobalt standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497495	257
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507484	257
Cobalt standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497491	257
Copper standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497615	260
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504545	260
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507478	260
Copper standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497611	260
Dysprosium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507734	306
Dysprosium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507500	306
Erbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507735	309
Erbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507501	309

Description	Notes	Size	Code	Page
Europium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507736	330
Europium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507502	330
Gadolinium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507737	344
Gadolinium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507504	344
Gallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507739	345
Gallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507503	345
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507740	347
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507505	347
Gold standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497585	352
Gold standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497581	352
Hafnium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507741	355
Hafnium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507506	355
Holmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507742	368
Holmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507507	368
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507743	395
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507508	395
Iron standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497515	401
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504194	401
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507393	401
Iron standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497511	401
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507744	423
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507509	423
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	E497595	425
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	E497591	425
Lithium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507745	431
Lithium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497525	431
Lithium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507486	431
Lithium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497521	431
Magnesium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497535	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503718	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503719	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Water	500 ml	507039	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497531	437
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507746	447
Manganese standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497545	447
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507488	447
Manganese standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497541	447
Mercury standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	497555	452
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503640	452
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507489	452
Mercury standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	497551	452
Molybdenum standard solution	conc. 1.000 ppm Matrix : Ammonium hydroxide	100 ml	E497565	476
Molybdenum standard solution	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	507747	476
Molybdenum standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	507494	476
Molybdenum standard solution	conc. 1.000 ppm Matrix : Ammonium hydroxide	500 ml	E497561	476
Neodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507748	484
Neodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507510	484
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507749	485

Description	Notes	Size	Code	Page
Nickel standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497575	485
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507487	485
Nickel standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497571	485
Niobium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507750	490
Niobium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507511	490
Palladium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507751	508
Palladium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507512	508
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507753	536
Potassium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497605	536
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	506960	536
Potassium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497601	536
Rhenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507754	588
Rhenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507513	588
Rubidium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507755	590
Rubidium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507514	590
Samarium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507756	593
Samarium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507515	593
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507757	595
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507516	595
Selenium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497625	596
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507758	596
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507491	596
Selenium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497621	596
Silicon standard solution	conc. 1.000 ppm Matrix : Water	100 ml	E497635	600
Silicon standard solution	conc. 1.000 ppm Matrix : Water	500 ml	E497631	600
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507526	602
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507480	602
Sodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497645	609
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507759	609
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503749	609
Sodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497641	609
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507760	668
Strontium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497665	668
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507493	668
Strontium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497661	668
Tantalum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507761	688
Tantalum standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507517	688
Tellurium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507762	690
Tellurium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507518	690
Thulium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507763	699
Thulium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507519	699
Tin standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497655	702
Tin standard solution	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	503949	702
Tin standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507492	702
Tin standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497651	702
Titanium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507764	706
Titanium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507520	706

Description	Notes	Size	Code	Page
Tungsten standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507765	723
Tungsten standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	507521	723
Vanadium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507766	725
Vanadium standard solution	conc. 1.000 ppm Matrix : Sulfuric acid	100 ml	E497675	725
Vanadium standard solution	conc. 1000 ppm Matrix : Nitric acid	500 ml	504187	725
Vanadium standard solution	conc. 1.000 ppm Matrix : Sulfuric acid	500 ml	E497671	725
Ytterbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507768	735
Ytterbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507523	735
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507767	736
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507522	736
Zinc standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	507769	738
Zinc standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	E497685	738
Zinc standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	507477	738
Zinc standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	E497681	738
Zirconium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	507770	745
Zirconium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	507524	745

### Auxiliary products for AAS: Blank, Ionisation standards and matrix modifiers

Ionization buffers, prepared from high-purity salts (99,999%), are used to eliminate ionization phenomena and chemical interference in AAS. Matrix modifiers for graphite furnace AAS can be used diluted or mixed depending on the user's needs, are useful in eliminating the matrix effect in AAS.

Description	Notes	Size	Code	Page
di-Ammonium hydrogen phosphate 25 mg/L solution	conc. 25 ppm - Matrix : Nitric acid	50 ml	503194	159
Ammonium nitrate 200 mg/L solution	conc. 200 ppm - Matrix : Water	50 ml	503195	161
Cadmium standard solution	conc. 5 +/- 0,5 µg/L Matrix : 2% Nitric acid	50 ml	504360	219
Cesium chloride 25 g/l solution	25g/l Matrix : Water	500 ml	504536	240
Copper standard solution	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid	50 ml	504361	260
Lanthanum chloride 25 g/L solution	Matrix : Hydrochloric acid	500 ml	504537	424
Lead standard solution	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid	50 ml	504364	426
Magnesium nitrate 10 g/L solution	conc. 10 ppm - Matrix : Nitric acid	50 ml	503196	441
Manganese standard solution	conc. 20 +/- 2 µg/L Matrix : 2% Nitric acid	50 ml	504362	447
Mercury standard solution	conc. 500 +/- 30 µg/L Matrix : 2% Nitric acid	100 ml	504370	452
Nickel standard solution	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid	50 ml	504363	486
Nickel (II) nitrate 10g/l	conc. 10 ppm - Matrix : Nitric acid	50 ml	503197	488
Palladium nitrate 2 g/l solution	conc. 2g/l Pd(NO <sub>3</sub> ) Matrix : Nitric acid	50 ml	503198	509
Potassium chloride 25g/l in HCl	25 g/l Matrix : Water	500 ml	504538	540
Water deionized and acidified	Matrix : 2 % Nitric acid	1 l	504550	730
Water deionized and acidified	Matrix : 5 % Nitric acid	1 l	504551	730
Water deionized and acidified	Matrix : 10 % Nitric acid	1 l	504552	730
Water deionized and acidified	Matrix : 2 % Hydrochloric acid	1 l	504553	730
Water deionized and acidified	Matrix : 5 % Hydrochloric acid	1 l	504554	730
Water deionized and acidified	Matrix : 10 % Hydrochloric acid	1 l	504557	730

### Monoelement Standard solutions 10.000 ppm for ICP

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.99%, in an acid (usually nitric acid).

They are characterized by:

- Concentrations of 10.000 ppm;
- Guaranteed titer with its uncertainty;

- Raw materials selected and verified against N.I.S.T. Standard Reference Materials;
- Available in 100ml and 500ml polyethylene bottles;
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;
- Shelf life, for the unopened product package, is 3 years.

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503415	139
Aluminum standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503417	139
Antimony standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503895	169
Antimony standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503897	169
Arsenic standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503425	172
Arsenic standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503427	172
Barium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503455	178
Barium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503457	178
Bismuth standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503475	191
Bismuth standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503477	191
Boron standard solution	conc. 10.000 ppm Matrix : Water	100 ml	503445	196
Boron standard solution	conc. 10.000 ppm Matrix : Water	500 ml	503447	196
Cadmium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503495	219
Cadmium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503497	219
Calcium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503485	221
Calcium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503487	221
Cerium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503505	237
Cerium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503507	237
Cesium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503535	239
Cesium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503537	239
Chromium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503525	251
Chromium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503527	251
Cobalt standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503515	256
Cobalt standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503517	256
Copper standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503545	260
Copper standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503547	260
Dysprosium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504235	305
Dysprosium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504237	305
Erbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504245	309
Erbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504247	309
Europium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503575	330
Europium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503577	330
Gadolinium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503605	344
Gadolinium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503607	344
Germanium standard solution	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	504255	347
Germanium standard solution	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid	500 ml	504257	347
Gold standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503435	352
Gold standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503437	352
Hafnium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504225	355
Hafnium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504227	355
Holmium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504265	367
Holmium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504267	367
Indium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503655	395
Indium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503657	395
Iron standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503585	400
Iron standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503587	400

Description	Notes	Size	Code	Page
Lanthanum standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503685	423
Lanthanum standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503687	423
Lead standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503805	425
Lead standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503807	425
Lithium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503695	431
Lithium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503697	431
Lutetium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503615	436
Lutetium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503617	436
Magnesium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503715	437
Magnesium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503717	437
Manganese standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503725	447
Manganese standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503727	447
Mercury standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503635	452
Mercury standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503637	452
Molybdenum standard solution	conc. 10.000 ppm Matrix : Ammonium hydroxide	100 ml	503735	476
Molybdenum standard solution	conc. 10.000 ppm Matrix : Ammonium hydroxide	500 ml	503737	476
Neodymium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503765	484
Neodymium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503767	484
Nickel standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503775	485
Nickel standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503777	485
Niobium standard solution	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	503755	490
Niobium standard solution	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	503757	490
Palladium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503815	508
Palladium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503817	508
Phosphorus standard solution	conc. 10.000 ppm Matrix : Water	100 ml	503795	531
Phosphorus standard solution	conc. 10.000 ppm Matrix : Water	500 ml	503797	531
Platinum standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503835	534
Platinum standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503837	534
Potassium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503675	536
Potassium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503677	536
Praseodymium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503825	571
Praseodymium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503827	571
Rhodium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503865	588
Rhodium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503867	588
Rubidium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503845	590
Rubidium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503847	590
Ruthenium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503875	591
Ruthenium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503877	591
Samarium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503935	593
Samarium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503937	593
Scandium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503905	595
Scandium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503907	595
Selenium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503915	596
Selenium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503917	596
Silicon standard solution	conc. 10.000 ppm Matrix : Water	100 ml	503925	600
Silicon standard solution	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	504275	600
Silicon standard solution	conc. 10.000 ppm Matrix : Water	500 ml	503927	600

Description	Notes	Size	Code	Page
Silicon standard solution	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	504277	600
Silver standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503405	602
Silver standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503407	602
Sodium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503745	609
Sodium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503747	609
Strontium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503955	667
Strontium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503957	667
Sulfur standard solution	conc. 10.000 ppm Matrix : Water	100 ml	504295	675
Sulfur standard solution	conc. 10.000 ppm Matrix : Water	500 ml	504297	675
Tantalum standard solution	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	503965	688
Tantalum standard solution	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid	500 ml	503967	688
Tellurium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503985	690
Tellurium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503987	690
Terbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	503975	690
Terbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	503977	690
Thallium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504015	697
Thallium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504017	697
Tin standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	503945	702
Tin standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	503947	702
Titanium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	100 ml	504005	705
Titanium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	500 ml	504007	705
Tungsten standard solution	conc. 10.000 ppm Matrix : 10% ammonia	100 ml	504055	723
Tungsten standard solution	conc. 10.000 ppm Matrix : 10% ammonia	500 ml	504057	723
Uranium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504035	724
Uranium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504037	724
Vanadium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504045	725
Vanadium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504047	725
Ytterbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504075	735
Ytterbium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504077	735
Yttrium standard solution	conc. 10.000 ppm Matrix : Nitric acid	100 ml	504065	735
Yttrium standard solution	conc. 10.000 ppm Matrix : Nitric acid	500 ml	504067	735
Zinc standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	100 ml	504085	737
Zinc standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid	500 ml	504087	737
Zirconium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	100 ml	504095	745
Zirconium standard solution	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	500 ml	504097	745

## Monoelement Standard solutions 1.000 ppm for ICP

ICP is a widely used analytical technique for trace metal analysis. It is based on a simultaneous system which allows quick and convenient analyses for a large number of determinable elements. One of the latest technological advances in the area of coupled analytical techniques involves the optimization of the ICP-MS technique, a versatile and vital instrument for the quick and reliable analysis of trace and ultra-trace metals.

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.99%, in an acid (usually nitric acid).

They are characterized by:

- Concentrations of 1.000 ppm;
- Guaranteed titer with its uncertainty;
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials;
- Available in 100ml and 500ml polyethylene bottles;
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval;
- Shelf life, for the unopened product package, is 3 years.

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503411	139
Aluminum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503413	139
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503891	169
Antimony standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	503899	169
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503893	169
Antimony standard solution	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid	500 ml	503898	169
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503421	172
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503423	172
Barium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503451	178
Barium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503453	178
Beryllium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503461	189
Beryllium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503463	189
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503471	191
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503473	191
Boron standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503441	196
Boron standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503443	196
Cadmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503491	219
Cadmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503493	219
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503481	221
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503483	221
Cerium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503501	237
Cerium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503503	237
Cesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503531	239
Cesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503533	239
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503521	251
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503523	251
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503511	256
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503513	256
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503541	260
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503543	260
Dysprosium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504231	305
Dysprosium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504233	305
Erbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504241	309
Erbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504243	309
Europium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503571	330
Europium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503573	330
Gadolinium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503601	344
Gadolinium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503603	344
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	504251	347
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	504253	347
Gold standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503431	352
Gold standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503433	352
Hafnium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504221	355
Hafnium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504223	355
Holmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504261	367
Holmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504263	367
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503651	395



Description	Notes	Size	Code	Page
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503653	395
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503581	400
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503583	400
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503681	423
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503683	423
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503801	425
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503803	425
Lithium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503691	431
Lithium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503693	431
Lutetium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503611	436
Lutetium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503613	436
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503711	437
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503713	437
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503721	447
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503723	447
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503631	452
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503633	452
Molybdenum standard solution	conc. 1.000 ppm Matrix : Ammonium hydroxide	100 ml	503731	476
Molybdenum standard solution	conc. 1.000 ppm Matrix : Ammonium hydroxide	500 ml	503733	476
Neodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503761	484
Neodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503763	484
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503771	485
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503773	485
Niobium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	503751	490
Niobium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	503753	490
Palladium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503811	508
Palladium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503813	508
Phosphorus standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503791	531
Phosphorus standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503793	531
Platinum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503831	534
Platinum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503833	534
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503671	536
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503673	536
Praseodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503821	571
Praseodymium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503823	571
Rhodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503861	588
Rhodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503863	588
Rubidium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503841	590
Rubidium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503843	590
Ruthenium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503871	591
Ruthenium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503873	591
Samarium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503931	593
Samarium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503933	593
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503901	595
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503903	595
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503911	596
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503913	596
Silicon standard solution	conc. 1.000 ppm Matrix : Water	100 ml	503921	600

Description	Notes	Size	Code	Page
Silicon standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	504271	600
Silicon standard solution	conc. 1.000 ppm Matrix : Water	500 ml	503923	600
Silicon standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	504273	600
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503401	602
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503403	602
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503741	609
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503743	609
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503951	667
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503953	667
Sulfur standard solution	conc. 1.000 ppm Matrix : Water	100 ml	504291	675
Sulfur standard solution	conc. 1.000 ppm Matrix : Water	500 ml	504293	675
Tantalum standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	503961	688
Tantalum standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	500 ml	503963	688
Tellurium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503981	690
Tellurium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503983	690
Terbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	503971	690
Terbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	503973	690
Thallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504011	697
Thallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504013	697
Thorium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504281	699
Thorium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504283	699
Tin standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	503941	702
Tin standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	503943	702
Titanium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	100 ml	504001	705
Titanium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	500 ml	504003	705
Tungsten standard solution	conc. 1.000 ppm Matrix : 4% ammonia	100 ml	504051	723
Tungsten standard solution	conc. 10.000 ppm Matrix : Water	100 ml	504058	723
Tungsten standard solution	conc. 1.000 ppm Matrix : 4% ammonia	500 ml	504053	723
Uranium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504031	724
Uranium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504033	724
Vanadium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504041	725
Vanadium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504043	725
Ytterbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504071	735
Ytterbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504073	735
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	504061	735
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	500 ml	504063	735
Zinc standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	504081	737
Zinc standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	500 ml	504083	737
Zirconium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	100 ml	504091	745
Zirconium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid	500 ml	504093	745

## Monoelement Standard solutions 1.000 ppm for ICP-MS

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.999%, in an acid (usually nitric acid). They are characterized by:

- Concentrations of 1.000 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom

- Available in 100ml LDPE bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval
- Shelf life, for the unopened product package, of 2 years

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505309	138
Antimony standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505833	169
Arsenic standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505313	171
Barium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505329	178
Beryllium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505333	189
Bismuth standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505339	191
Boron standard solution	conc. 1.000 ppm Matrix : Water	100 ml	505323	195
Cadmium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505549	219
Calcium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505543	221
Chromium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505569	251
Cobalt standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505563	256
Copper standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505579	260
Gallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505619	345
Germanium standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505633	347
Gold standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505319	352
Indium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505663	395
Iron standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505613	400
Lanthanum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505693	423
Lead standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505769	425
Lithium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505703	431
Lutetium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505709	436
Magnesium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505713	437
Manganese standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505719	447
Mercury standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505654	451
Molybdenum standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505723	475
Nickel standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505753	485
Phosphorus standard solution	conc. 1.000 ppm Matrix : Water	100 ml	505763	531
Platinum standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	505789	534
Potassium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505683	536
Rhodium standard solution	conc. 1.000 ppm Matrix : Hydrochloric acid	100 ml	505809	588
Scandium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505839	594
Selenium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505843	596
Silver standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505303	601
Sodium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505733	609
Strontium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505869	667
Sulfur standard solution	conc. 1.000 ppm Matrix : Water	100 ml	505823	674
Terbium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505883	690
Thallium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505913	696
Tin standard solution	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505863	702
Titanium standard solution	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	505909	705
Vanadium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505929	725
Yttrium standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505943	735
Zinc standard solution	conc. 1.000 ppm Matrix : Nitric acid	100 ml	505953	737

## Monoelement Standard solutions 100 ppm for ICP-MS

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.999%, in an acid (usually nitric acid).

They are characterized by:

- Concentrations of 100 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom
- Available in 100ml LDPE bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval
- Shelf life, for the unopened product package, of 2 years

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505308	138
Antimony standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505835	169
Arsenic standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505315	171
Barium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505328	178
Beryllium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505335	189
Bismuth standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505338	191
Boron standard solution	conc. 100 ppm Matrix : Water	100 ml	505325	195
Cadmium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505548	219
Calcium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505545	221
Cerium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505555	236
Cesium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505575	239
Chromium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505568	251
Cobalt standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505565	256
Copper standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505578	260
Dysprosium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505585	305
Erbium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505595	309
Europium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505605	330
Gadolinium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505625	344
Gallium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505618	345
Germanium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505635	347
Gold standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505318	352
Hafnium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505645	355
Holmium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505658	367
Indium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505665	395
Iridium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505675	400
Iron standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505615	400
Lanthanum standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505695	423
Lead standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505768	425
Lithium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505705	431
Lutetium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505708	436
Magnesium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505715	437
Manganese standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505718	447
Mercury standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505655	451
Mercury standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	506918	451
Molybdenum standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505725	475
Neodymium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505745	483
Nickel standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505755	485
Niobium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505738	490
Osmium standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505758	505

Description	Notes	Size	Code	Page
Palladium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505775	508
Phosphorus standard solution	conc. 100 ppm Matrix : Water	100 ml	505765	531
Platinum standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505788	534
Potassium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505685	536
Praseodymium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505785	571
Rhenium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505805	588
Rhodium standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505808	588
Rubidium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505795	590
Ruthenium standard solution	conc. 100 ppm Matrix : Hydrochloric acid	100 ml	505815	591
Samarium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505855	593
Scandium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505838	594
Selenium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505845	596
Silicon standard solution	conc. 100 ppm Matrix : Water	100 ml	505848	600
Silver standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505305	601
Sodium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505735	609
Strontium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505868	667
Sulfur standard solution	conc. 100 ppm Matrix : Water	100 ml	505825	674
Tantalum standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505875	687
Tellurium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505888	690
Terbium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505885	690
Thallium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505915	696
Thulium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505918	699
Tin standard solution	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid	100 ml	505865	702
Titanium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505908	705
Tungsten standard solution	conc. 100 ppm. Matrix : Ammonium hydroxyde	100 ml	505935	722
Uranium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505923	724
Vanadium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505928	725
Ytterbium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505948	735
Yttrium standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505945	735
Zinc standard solution	conc. 100 ppm Matrix : Nitric acid	100 ml	505955	737
Zirconium standard solution	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505958	745

## Monoelement Standard solutions 10 ppm for ICP-MS

These standard solutions are obtained by dissolution of the metal, at a purity level of 99.999%, in an acid (usually nitric acid).

They are characterized by:

- Concentrations of 10 ppm
- Guaranteed titer with its uncertainty
- Raw materials selected and verified against N.I.S.T. Standard Reference Materials and packaged in a cleanroom
- Available in 100ml LDPE bottles
- Certificate of analysis with references to the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval
- Shelf life, for the unopened product package, of 2 years

Description	Notes	Size	Code	Page
Aluminum standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505307	138
Antimony standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505832	169
Arsenic standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505312	171
Barium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505327	178
Beryllium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505332	189
Bismuth standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505337	191

Description	Notes	Size	Code	Page
Boron standard solution	conc. 10 ppm Matrix : Water	100 ml	505322	195
Cadmium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505547	219
Calcium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505542	221
Cerium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505552	236
Cesium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505572	239
Chromium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505567	251
Cobalt standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505562	256
Copper standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505577	260
Dysprosium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505582	305
Erbium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505592	309
Europium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505602	330
Gadolinium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505622	344
Gallium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505617	345
Germanium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505632	347
Gold standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505317	352
Hafnium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505642	355
Holmium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505657	367
Indium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505662	395
Iridium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505672	400
Iron standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505612	400
Lanthanum standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505692	423
Lead standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505767	425
Lithium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505702	431
Lutetium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505707	436
Magnesium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505712	437
Manganese standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505717	447
Mercury standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505652	451
Molybdenum standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505722	475
Neodymium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505742	483
Nickel standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505752	485
Niobium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505737	490
Palladium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505772	508
Phosphorus standard solution	conc. 10 ppm Matrix : Water	100 ml	505762	531
Platinum standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505787	534
Potassium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505682	536
Praseodymium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505782	571
Rhenium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505802	588
Rhodium standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505807	588
Rubidium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505792	590
Ruthenium standard solution	conc. 10 ppm Matrix : Hydrochloric acid	100 ml	505812	591
Samarium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505852	593
Scandium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505837	594
Selenium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505842	596
Silicon standard solution	conc. 10 ppm Matrix : Water	100 ml	505847	600
Silver standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505302	601
Sodium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505732	609
Strontium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505867	667
Sulfur standard solution	conc. 10 ppm Matrix : Water	100 ml	505822	674

Description	Notes	Size	Code	Page
Tantalum standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505872	687
Tellurium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505887	690
Terbium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505882	690
Thallium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505912	696
Thulium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505917	699
Tin standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505862	702
Titanium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505907	705
Tungsten standard solution	conc. 10 ppm. Matrix : Ammonium hydroxyde	100 ml	505932	722
Uranium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505922	724
Vanadium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505927	725
Ytterbium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505947	735
Yttrium standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505942	735
Zinc standard solution	conc. 10 ppm. Matrix : Nitric acid	100 ml	505952	737
Zirconium standard solution	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid	100 ml	505957	745



CARLO ERBA Reagents has always carefully monitored developments in the quality of raw materials and reagents used in the pharmaceutical industry. The experience gained in over 160 years as a supplier of raw materials and excipients and the countless approvals issued by the most important pharmaceutical multinationals have allowed CARLO ERBA Reagents to become a benchmark in the pharmaceutical industry worldwide, distinguishing itself for its premium quality and reliability.

## ERBApharm: raw material and excipients

CARLO ERBA Reagents has developed the ERBApharm product line on the specific requests of the pharmaceutical market. Their specifications comply with the effective requirements of Pharmacopoeia or - in the absence of those requirements - with strict sales specifications. These products are designed to be used as raw materials, synthetic intermediates, reagents for the production of active principles, excipients and biopharma solutions. The ERBApharm line includes every kind of product: solvents, acids and basis, titrated solutions, organic and inorganic powders.

The documents available for these products comply with the need of traceability related to their use (confidentiality agreement, name of manufacturer, control charts, residual solvents, metals, BSE/TSE declaration, GMO, allergens and fulfilment of the change control system).

Description	Notes	Size	Code	Page
Acetic acid glacial		1 l	302016	120
Acetic acid glacial		2.5 l	302011	120
Acetic acid glacial		5 l	302014	120
Acetic acid glacial		30 kg	302015	120
Acetic acid glacial		200 kg	302013	120
Acetone		1 l	301505	128
Acetone		2.5 l	301506	128
Acetone		5 l	301502	128
Acetone		5 l	301503	128
Acetone		16 kg	301501	128
Acetone		22 kg	301504	128
Acetone		160 kg	301507	128
Aluminum chloride hexahydrate		1 kg	311257	140
Aluminum chloride hexahydrate		5 kg	311252	140
Aluminum chloride hexahydrate		50 kg	311254	140
Aluminum potassium sulfate dodecahydrate		1 kg	312401	143
Aluminum potassium sulfate dodecahydrate		5 kg	312404	143
Aluminum potassium sulfate dodecahydrate		10 kg	312402	143
p-Aminobenzoic acid		100 g	391804	145
Ammonia solution 28%		1 l	314861	148
Ammonia solution 28%		2 l	314863	148
Ammonia solution 28%		25 kg	314866	148
Ammonium carbonate		1 kg	313887	154
Ammonium carbonate		5 kg	313889	154
Ammonium chloride		1 kg	313957	155
Ammonium chloride		2.5 kg	313952	155
Ammonium chloride		5 kg	313956	155
Ammonium chloride		25 kg	313951	155
Ammonium chloride		50 kg	313954	155
Benzalkonium chloride		1 kg	322737	185
Benzalkonium chloride		5 kg	322738	185
Benzoic acid		1 kg	302087	187
Benzoic acid		5 kg	302089	187
Benzoic acid		25 kg	302082	187
Benzyl alcohol		1 l	308131	188
Benzyl alcohol		2.5 l	308132	188
Benzyl alcohol		23 kg	308138	188
Benzyl benzoate		1 l	323101	189



Description	Notes	Size	Code	Page
Benzyl benzoate		2.5 l	323102	189
Boric acid		25 kg	302185	193
Boric acid		1 kg	302177	194
Boric acid		5 kg	302179	194
Boric acid		25 kg	302178	194
Caffeine anhydrous		500 g	326356	221
Caffeine anhydrous		1 kg	326357	221
Caffeine anhydrous		25 kg	326358	221
Calcium acetate anhydrous		1 kg	326511	222
Calcium acetate anhydrous		5 kg	326512	222
Calcium acetate anhydrous		25 kg	326513	222
Calcium carbonate		1 kg	327101	224
Calcium carbonate		25 kg	327105	224
Calcium chloride dihydrate		1 kg	327607	225
Calcium chloride dihydrate		5 kg	327609	225
Calcium chloride dihydrate		25 kg	327603	225
Calcium chloride hexahydrate		1 kg	327507	226
Calcium chloride hexahydrate		5 kg	327509	226
Calcium gluconate		1 kg	330608	227
Calcium gluconate		5 kg	330609	227
Calcium hydroxide		1 kg	331007	227
Calcium hydroxide		5 kg	331008	227
Calcium hydroxide		25 kg	331003	227
Calcium lactate		1 kg	331407	228
Calcium lactate		5 kg	331408	228
Calcium phosphate dibasic dihydrate		1 kg	330307	229
Calcium phosphate dibasic dihydrate		25 kg	330303	229
Calcium phosphate tribasic		1 kg	330407	230
Calcium phosphate tribasic		5 kg	330409	230
Calcium phosphate tribasic		25 kg	330403	230
Calcium stearate		2.5 kg	332262	231
Calcium stearate		10 kg	332261	231
Calcium stearate		25 kg	332265	231
Calcium sulfate dihydrate		5 kg	331752	231
Calcium sulfate dihydrate		25 kg	331751	231
Camphor natural		500 g	332356	233
Camphor synthetic		500 g	332406	233
Camphor synthetic		25 kg	332402	233
Castor oil		1 l	356351	236
Castor oil		5 l	356352	236
Castor oil		28 kg	356353	236
Cetyl alcohol		1 kg	308357	241
Cetyl alcohol		5 kg	308358	241
Cetyl alcohol		25 kg	308359	241
Chlorobutanol		1 kg	301357	245
Chlorobutanol		5 kg	301356	245
Chloroform		1 l	334351	248
Chloroform		2.5 l	334353	248
Chloroform		25 kg	334356	248
Chloroform		40 kg	334355	248
Chloroform		200 l	529301	248

Description	Notes	Size	Code	Page
Chloroform		250 kg	334354	248
Citric acid anhydrous		500 g	302486	255
Citric acid anhydrous		1 kg	302487	255
Citric acid anhydrous		5 kg	302485	255
Citric acid anhydrous		25 kg	302488	255
Citric acid anhydrous		50 kg	302484	255
Citric acid monohydrate		1 kg	302557	255
Citric acid monohydrate		5 kg	302559	255
Citric acid monohydrate		25 kg	302551	255
Citric acid monohydrate		50 kg	302554	255
Citric acid monohydrate		1 kg	302507	256
Citric acid monohydrate		5 kg	302509	256
Citric acid monohydrate		25 kg	302501	256
Citric acid monohydrate		50 kg	302504	256
Copper (II) sulfate pentahydrate		1 kg	364757	265
Copper (II) sulfate pentahydrate		5 kg	364759	265
Copper (II) sulfate pentahydrate		25 kg	364752	265
Dichloromethane		1 l	354501	284
Dichloromethane		1 l	337331	285
Dichloromethane		2.5 l	337333	285
Dichloromethane		25 l	337335	285
Dichloromethane		200 l	337337	285
Dichloromethane		2.5 l	525320	285
Dichloromethane		200 l	525321	285
Diethanolamine		220 kg	337801	287
Diethyl ether		40 x 100 g	340731	290
Diethyl ether		1 l	340751	290
Diethyl ether		20 kg	340752	290
Diethyl ether		140 kg	340759	290
Diethyl phthalate		1 l	338112	291
Diethyl phthalate		2.5 l	338115	291
Diethyl phthalate		30 kg	338113	291
Diethyl phthalate		200 l	338114	291
Ethanol absolute anhydrous		1 l	529121	313
Ethanol absolute anhydrous	Only for Italian market	2.5 l	308661	313
Ethanol absolute anhydrous	Only for Italian market	2.5 l	308662	313
Ethanol absolute anhydrous		2.5 l	3086612	313
Ethanol absolute anhydrous		2.5 l	3086622	313
Ethanol absolute anhydrous		5 l	529122	313
Ethanol absolute anhydrous		10 l	529124	313
Ethanol absolute anhydrous		25 l	308664	313
Ethanol absolute anhydrous		25 l	308667	313
Ethanol absolute anhydrous		200 l	308663	313
Ethanol absolute anhydrous		200 l	529125	313
Ethanol 96°		5 l	524135	315
Ethanol 96°		25 l	524132	315
Ethanol 96°	Only for Italian market	1 l	308644	315
Ethanol 96°	Only for Italian market	1 l	308647	315
Ethanol 96°		1 l	3086442	315
Ethanol 96°		1 l	3086472	315
Ethanol 96°	Only for Italian market	2.5 l	308641	315

Description	Notes	Size	Code	Page
Ethanol 96°	Only for Italian market	2.5 l	308649	315
Ethanol 96°		2.5 l	3086412	315
Ethanol 96°		2.5 l	3086492	315
Ethanol 96°		5 l	529141	315
Ethanol 96°		10 l	308646	315
Ethanol 96°		25 l	308645	315
Ethanol 96°		27 l	308648	315
Ethanol 96°		200 l	308640	315
Ethanol 70 % v/v	20 units / box	500 ml	529187	315
Ethanol 70 % v/v		5 l	529189	315
Ethanol 70 % v/v		200 l	529183	315
Ethanol 70 % v/v	6 units / box	1 l	529184	316
Ethyl acetate		1 l	341506	322
Ethyl acetate		2.5 l	341503	322
Ethyl acetate		24 kg	341502	322
Ethyl acetate		25 l	529221	322
Ethyl acetate		200 l	529222	322
Ethylenediaminetetraacetic acid		5 kg	303251	323
Ethylenediaminetetraacetic acid		25 kg	303252	323
Ethylenediaminetetraacetic acid disodium salt		1 kg	303201	324
Ethylenediaminetetraacetic acid disodium salt		5 kg	303203	324
Ethylenediaminetetraacetic acid disodium salt		25 kg	303202	324
Ethylenediaminetetraacetic acid disodium salt		1 kg	303227	324
Ethylenediaminetetraacetic acid disodium salt		5 kg	303226	324
Ethylenediaminetetraacetic acid disodium salt		25 kg	303225	324
Formaldehyde 35% w/w		1 l	310351	337
Formaldehyde 35% w/w		2.5 l	310356	337
Formaldehyde 35% w/w		5 l	310358	337
Formaldehyde 35% w/w		10 kg	310349	337
Formaldehyde 35% w/w		30 kg	310348	337
Formaldehyde 35% w/w		55 kg	310355	337
Formic acid 99%		1 l	303911	341
Formic acid 99%		2.5 l	303912	341
Formic acid 99%		30 kg	303913	341
D(+)-Glucose anhydrous		1 kg	346987	348
D(+)-Glucose anhydrous		5 kg	346989	348
D(+)-Glucose anhydrous		25 kg	346983	348
D(+)-Glucose monohydrate		1 kg	346971	348
D(+)-Glucose monohydrate		5 kg	346972	348
D(+)-Glucose monohydrate		25 kg	346973	348
Glycerol (30°Bé)		1 l	346161	350
Glycerol (30°Bé)		2.5 l	346165	350
Glycerol (30°Bé)		35 kg	346164	350
Glycerol (30°Bé)		250 kg	346167	350
Glycine		1 kg	346207	351
Glycine		5 kg	346205	351
Glycine		25 kg	346208	351
Gum arabic		1 kg	347107	354
Hydrochloric acid 37%		1 l	302621	371
Hydrochloric acid 37%		2.5 l	302626	371
Hydrochloric acid 37%		5 l	302643	371

Description	Notes	Size	Code	Page
Hydrochloric acid 37%		10 l	302624	371
Hydrochloric acid 37%		25 kg	302623	371
Hydrochloric acid 37%		40 kg	302622	371
Hydrochloric acid 37%		55 kg	302627	371
Hydrochloric acid 37%		220 kg	302625	371
Hydrochloric acid 10%		10 kg	302591	375
Hydrogen peroxide solution 30%		25 kg	307685	388
Hydrogen peroxide solution 3%		1 l	307671	389
Hydrogen peroxide solution 3%		50 kg	307678	389
Iodine		100 g	348454	397
Iodine		250 g	348455	397
Iodine		1 kg	348457	397
Iodine		5 kg	348451	397
Iodine		20 kg	348452	397
Iron (II) sulfate heptahydrate		1 kg	344957	407
Iron (II) sulfate heptahydrate		5 kg	344959	407
Lactic acid		1 l	304652	422
Lactic acid		2.5 l	304651	422
Lactic acid		25 kg	304653	422
Lactose		1 kg	348707	423
Lactose		5 kg	348708	423
Lactose		10 kg	348702	423
Lactose		25 kg	348703	423
Lanolin anhydrous		1 kg	347357	423
Lanolin anhydrous		5 kg	347359	423
Lanolin anhydrous		50 kg	347354	423
Magnesium carbonate basic		1 kg	349257	439
Magnesium carbonate basic		5 kg	349279	439
Magnesium chloride hexahydrate		1 kg	349357	440
Magnesium chloride hexahydrate		5 kg	349359	440
Magnesium chloride hexahydrate		25 kg	349355	440
Magnesium oxide heavy		1 kg	349655	442
Magnesium oxide heavy		5 kg	349656	442
Magnesium oxide heavy		25 kg	349653	442
Magnesium stearate		2.5 kg	350032	443
Magnesium stearate		25 kg	350035	443
Magnesium sulfate heptahydrate		1 kg	349852	444
Magnesium sulfate heptahydrate		5 kg	349859	444
Magnesium sulfate heptahydrate		25 kg	349851	444
Maize starch		1 kg	313071	444
Maize starch		5 kg	313072	444
Maize starch		25 kg	313073	444
Maleic acid		500 g	407266	445
Maleic acid		5 kg	407261	445
Maleic acid		25 kg	407263	445
D-Mannitol		1 kg	352051	450
D-Mannitol		5 kg	352052	450
D-Mannitol		25 kg	352053	450
L-Menthol		50 g	352103	451
L-Menthol		500 g	352106	451
Methanol		1 l	309204	458

Description	Notes	Size	Code	Page
Methanol		2.5 l	309203	458
Methanol		25 l	309201	458
Methanol		200 l	529100	458
Methyl 4-hydroxybenzoate		1 kg	354007	465
Methyl 4-hydroxybenzoate		5 kg	354008	465
Methyl salicylate		1 l	354152	470
Methyl salicylate		25 kg	354155	470
Nicotinamide		100 g	392304	488
Nicotinamide		1 kg	392307	488
Oil refined of almonds		1 l	356251	501
Orthophosphoric acid 85%		1 l	304061	504
Orthophosphoric acid 85%		2.5 l	304062	504
Orthophosphoric acid 85%		40 kg	304063	504
Paraffin oil		1 l	356601	511
Paraffin oil		5 l	356608	511
Paraffin oil		23 kg	356603	511
Paraffin oil		180 kg	356607	511
Paraffin white soft		1 kg	388407	511
Paraffin white soft		5 kg	388409	511
Phenol		1 kg	343407	524
2-Phenylethanol		1 l	529022	527
2-Phenylethanol		2.4 l	529021	527
Potassium acetate		1 kg	358907	537
Potassium acetate		5 kg	358908	537
Potassium acetate		25 kg	358903	537
Potassium bromide		1 kg	359707	539
Potassium bromide		5 kg	359702	539
Potassium chloride		1 kg	360107	540
Potassium chloride		5 kg	360109	540
Potassium chloride		25 kg	360106	540
Potassium chloride		50 kg	360104	540
Potassium citrate tribasic monohydrate		500 g	359956	544
Potassium citrate tribasic monohydrate		2.5 kg	359958	544
Potassium hydroxide, flakes		25 kg	362201	551
Potassium hydroxide, pellets		1 kg	362237	552
Potassium hydroxide, pellets		5 kg	362239	552
Potassium hydroxide, pellets		25 kg	362235	552
Potassium iodide		250 g	362405	559
Potassium iodide		1 kg	362407	559
Potassium iodide		5 kg	362409	559
Potassium iodide		10 kg	362403	559
Potassium iodide		25 kg	362402	559
Potassium metabisulfite		1 kg	362627	560
Potassium metabisulfite		5 kg	362629	560
Potassium metabisulfite		10 kg	362622	560
Potassium metabisulfite		25 kg	362623	560
Potassium nitrate		1 kg	363007	561
Potassium nitrate		5 kg	363009	561
Potassium nitrate		25 kg	363002	561
Potassium permanganate		1 kg	363107	563
Potassium permanganate		5 kg	363109	563

Description	Notes	Size	Code	Page
Potassium permanganate		25 kg	363101	563
Potassium phosphate monobasic		1 kg	361507	566
Potassium phosphate monobasic		5 kg	361509	566
Potassium phosphate monobasic		25 kg	361503	566
Potassium sodium tartrate tetrahydrate		1 kg	363457	568
Potassium sodium tartrate tetrahydrate		5 kg	363459	568
Potassium sodium tartrate tetrahydrate		50 kg	363454	568
Propan-2-ol		1 l	309501	576
Propan-2-ol		2.5 l	309505	576
Propan-2-ol		5 l	529165	576
Propan-2-ol		10 l	309506	576
Propan-2-ol		25 l	309504	576
Propan-2-ol		25 l	309507	576
Propan-2-ol		160 kg	309503	576
Propan-2-ol		200 l	309500	576
Propan-2-ol		200 l	309509	576
Propan-2-ol 70%		5 l	524195	577
Propyl p-hydroxybenzoate		50 g	363953	579
Propyl p-hydroxybenzoate		500 g	363956	579
Propylene glycol		1 l	346701	579
Propylene glycol		2.5 l	346703	579
Propylene glycol		60 kg	346705	579
Propylene glycol		200 kg	346708	579
Rice starch		1 kg	313107	589
Rice starch		2.5 kg	313108	589
Rice starch		5 kg	313109	589
Rice starch		25 kg	313102	589
Rice starch		50 kg	313104	589
Salicylic acid		1 kg	306381	592
Salicylic acid		1 kg	306377	593
Silver nitrate		100 g	320904	604
Silver nitrate		1 kg	320907	604
Sodium acetate anhydrous		1 kg	366377	610
Sodium acetate anhydrous		5 kg	366372	610
Sodium acetate anhydrous		25 kg	366371	610
Sodium acetate trihydrate		1 kg	366207	611
Sodium acetate trihydrate		5 kg	366209	611
Sodium acetate trihydrate		25 kg	366205	611
Sodium alginate		100 g	366551	611
Sodium alginate		1 kg	366552	611
Sodium alginate		5 kg	366553	611
Sodium benzoate		1 kg	366757	613
Sodium benzoate		5 kg	366759	613
Sodium benzoate		25 kg	366754	613
Sodium bicarbonate		1 kg	366908	614
Sodium bicarbonate		5 kg	366909	614
Sodium bicarbonate		25 kg	366902	614
Sodium bicarbonate		50 kg	366904	614
Sodium bromide		1 kg	367357	615
Sodium bromide		5 kg	367359	615
Sodium carbonate anhydrous		1 kg	367707	616

Description	Notes	Size	Code	Page
Sodium carbonate anhydrous		5 kg	367703	616
Sodium carbonate anhydrous		50 kg	367704	616
Sodium carbonate decahydrate		1 kg	367608	617
Sodium carbonate decahydrate		5 kg	367609	617
Sodium carbonate decahydrate		25 kg	367601	617
Sodium carbonate decahydrate		50 kg	367604	617
Sodium carbonate monohydrate		1 kg	367691	617
Sodium carbonate monohydrate		5 kg	367692	617
Sodium carbonate monohydrate		25 kg	367693	617
Sodium carbonate monohydrate		50 kg	367694	617
Sodium chloride		10 kg	368281	619
Sodium chloride		1 kg	368257	619
Sodium chloride		5 kg	368259	619
Sodium chloride		25 kg	368253	619
Sodium citrate dibasic sesquihydrate		1 kg	367951	620
Sodium citrate tribasic anhydrous		1 kg	368107	620
Sodium citrate tribasic dihydrate		1 kg	368057	621
Sodium citrate tribasic dihydrate		5 kg	368058	621
Sodium citrate tribasic dihydrate		10 kg	368052	621
Sodium citrate tribasic dihydrate		25 kg	368051	621
Sodium citrate tribasic dihydrate		50 kg	368054	621
Sodium glycerophosphate pentahydrate		1 kg	369447	624
Sodium glycerophosphate pentahydrate		5 kg	369449	624
Sodium hydroxide, pearls		1 kg	369743	626
Sodium hydroxide, pearls		5 kg	369741	626
Sodium hydroxide, pearls		25 kg	369742	626
Sodium hydroxide, pearls		25 kg	369744	626
Sodium hydroxide, pellets		1 kg	369777	627
Sodium hydroxide, pellets		5 kg	369772	627
Sodium hydroxide, pellets		20 kg	369771	627
Sodium hydroxide, pellets		25 kg	369774	627
Sodium iodide		250 g	370305	639
Sodium iodide		1 kg	370307	639
Sodium iodide		5 kg	370309	639
Sodium metabisulfite		1 kg	370751	640
Sodium metabisulfite		2.5 kg	370752	640
Sodium metabisulfite		25 kg	370753	640
Sodium nitrite		1 kg	371901	642
Sodium nitrite		5 kg	371902	642
Sodium nitrite		25 kg	371903	642
Sodium phosphate dibasic anhydrous		1 kg	369212	646
Sodium phosphate dibasic anhydrous		5 kg	369213	646
Sodium phosphate dibasic anhydrous		25 kg	369211	646
Sodium phosphate dibasic dihydrate		5 kg	369185	646
Sodium phosphate dibasic dodecahydrate		1 kg	369158	647
Sodium phosphate dibasic dodecahydrate		5 kg	369159	647
Sodium phosphate dibasic dodecahydrate		25 kg	369152	647
Sodium phosphate dibasic dodecahydrate		50 Kg	369154	647
Sodium phosphate monobasic dihydrate		1 kg	369138	648
Sodium phosphate monobasic dihydrate		5 kg	369139	648
Sodium phosphate monobasic dihydrate		25 kg	369132	648

Description	Notes	Size	Code	Page
Sodium phosphate monobasic monohydrate		1 kg	369143	648
Sodium phosphate monobasic monohydrate		5 kg	369141	648
Sodium phosphate monobasic monohydrate		25 kg	369142	648
Sodium salicylate		1 kg	373607	650
Sodium salicylate		25 kg	373603	650
Sodium sulfate anhydrous		1 kg	375713	652
Sodium sulfate anhydrous		25 kg	375716	652
Sodium sulfite anhydrous		1 kg	376006	653
Sodium sulfite anhydrous		2.5 kg	376008	653
Sodium sulfite anhydrous		5 kg	376009	653
Sodium sulfite anhydrous		10 kg	376002	653
Sodium sulfite anhydrous		25 kg	376003	653
Sodium sulfite anhydrous		50 kg	376004	653
Sodium tetraborate decahydrate		1 kg	367207	655
Sodium tetraborate decahydrate		5 kg	367209	655
Sodium tetraborate decahydrate		25 kg	367201	655
Sodium thiosulfate pentahydrate		1 kg	377907	656
Sodium thiosulfate pentahydrate		5 kg	377909	656
Sodium thiosulfate pentahydrate		25 kg	377901	656
Sorbitol		50 kg	379014	659
Sorbitol (no crystallizable) solution 70%		1 l	379021	659
Stearic acid		2.5 kg	307112	667
Stearic acid		25 kg	307115	667
D(+)-Sucrose		1 kg	365157	671
D(+)-Sucrose		5 kg	365158	671
D(+)-Sucrose		25 kg	365152	671
Sulfuric acid 96%		1 l	306651	677
Sulfuric acid 96%		2.5 l	306657	677
Sulfuric acid 96%		50 kg	306653	677
Talc		1 kg	382107	687
Talc		5 kg	382109	687
Talc		25 kg	382105	687
Tannic acid		1 kg	307157	687
Tannic acid		5 kg	307152	687
Tannic acid		25 kg	307153	687
L(+) Tartaric Acid		1 kg	307357	688
L(+) Tartaric Acid		5 kg	307359	688
L(+) Tartaric Acid		1 kg	307307	688
L(+) Tartaric Acid		5 kg	307309	688
L(+) Tartaric Acid		25 kg	307301	688
L(+) Tartaric Acid		50 kg	307304	688
Thymol		250 g	384205	699
Thymol		2.5 kg	384202	699
Titanium dioxide		1 kg	385751	706
Titanium dioxide		5 kg	385752	706
Titanium dioxide		25 kg	385753	706
Triethanolamine		1 l	386301	714
Triethanolamine		2.5 l	386303	714
Triethanolamine		30 kg	386304	714
Triethanolamine		220 kg	386305	714
Vanillin		100 g	388104	726



Description	Notes	Size	Code	Page
Vanillin		1 kg	388107	726
Vanillin		5 kg	388108	726
Water purified		10 l	307602	731
Water purified		25 kg	307603	731
Water purified		200 l	307604	731
Zinc oxide		1 kg	393507	742
Zinc oxide		5 kg	393509	742
Zinc oxide		25 kg	393503	742
Zinc stearate		1 kg	395451	742
Zinc stearate		10 kg	395452	742
Zinc sulfate heptahydrate		1 kg	394007	743
Zinc sulfate heptahydrate		5 kg	394009	743
Zinc sulfate heptahydrate		25 kg	394001	743

## ERBApharm: Titrated and Diluted solutions manufactured from raw material according to Ph.Eur

CARLO ERBA Reagents provides a range of titrated and diluted solutions described (or not) in the monographs of European Pharmacopoeia. If there are not listed in it, CARLO ERBA Reagents is able to propose you the solution you need manufactured with raw materials conform to the required Pharmacopoeia, and with same guarantee of quality in terms of traceability, documentation and analysis. A feasibility study is carried out to meet your requirements.

Description	Notes	Size	Code	Page
Acetic acid 1 mol/l (1N)		1 l	524641	124
Ethanol 50% v/v		5 l	529261	316
Hydrochloric acid 5%		10 l	PS0864/41	376
Hydrochloric acid 6 mol/l (6N)		25 l	528651	376
Hydrochloric acid 4 mol/l (4N)		1 l	528681	377
Hydrochloric acid 2 mol/l (2N)		1 l	528691	378
Hydrochloric acid 1 mol/l (1N)		1 l	528583	379
Hydrochloric acid 1 mol/l (1N)		3 l	528582	379
Hydrochloric acid 1 mol/l (1N)		5 l	528584	379
Hydrochloric acid 0.1 mol/l (0.1N)		1 l	528661	381
Hydrochloric acid 0.1 mol/l (0.1N)		5 l	528662	381
Propan-2-ol 70%		1 l	524182	577
Propan-2-ol 70%	6 units / box	1 l	524183	577
Propan-2-ol 70%		2.5 l	524184	577
Propan-2-ol 70%		5 l	524181	577
Sodium hydroxide solution 30%		1 l	369704	629
Sodium hydroxide solution 30%		20 l	369702	629
Sodium hydroxide solution 30%		10 kg	369701000	629
Sodium hydroxide 3 mol/l (3N)		500 ml	524732	632
Sodium hydroxide 2 mol/l (2N)		1 l	524671	633
Sodium hydroxide 1 mol/l (1N)		1 l	524621	634
Sodium hydroxide 0.5 mol/l (N/2)		500 ml	524692	635
Sodium hydroxide 0.25 mol/l (N/4)		5 l	369812	635
Sodium hydroxide 0.1 mol/l (N/10)		1 l	524631	636



The European Pharmacopoeia defines, in chapters “2. Methods of analysis” and “4. Reagents”, the procedures and products suitable for the analysis of pharmaceutical raw materials or finished products.

CARLO ERBA Reagents offers a wide range of products, prepared according to the instructions set forth in the European Pharmacopoeia currently in force, which meet the specific needs of analysis and quality control laboratories in the pharmaceutical industry.

Our solutions are ready to use or to be diluted immediately prior to use, allowing significant time savings with guaranteed conformity with the European Pharmacopoeia (Ph.Eur.) requirements. To facilitate their identification, our reagents are named as indicated in the Pharmacopoeia and coded with their specific reference number preceded by the number 61.

The following is guaranteed for all our pharmacopoeia reagents and solutions:

- Shelf life ranging from 2 to 24 months
- No particular storage or transport conditions
- Certificate of analysis with the lot number, expiration date and declared conformity with the European Pharmacopoeia requirements

These reagents and solutions are for use during the analysis of pharmaceutical raw materials or finished products, and therefore should not be confused with the pharmacopoeia products.

### Ph. Eur. Reagents, Chapter 2.2.1: Clarity and degree of opalescence of liquids

Description	Notes	Size	Code	Page
Primary opalescent suspension	Formazin suspension	100 ml	612201100	571

### Ph. Eur. Reagents, Chapter 2.2.2: Degree of coloration of liquids

Description	Notes	Size	Code	Page
Hydrochloric acid, dilute	Dilution matrix HCl 10g/L	1 l	612202400	383
Primary solutions for degree of coloration of liquids	Yellow primary solution	100 ml	612202100	572
Primary solutions for degree of coloration of liquids	Red primary solution	100 ml	612202200	572
Primary solutions for degree of coloration of liquids	Blue primary solution	100 ml	612202300	572
Standard solutions for degree of coloration of liquids	Standard solution B (brown)	125 ml	612202510	666
Standard solutions for degree of coloration of liquids	Standard solution BY (brownish-yellow)	125 ml	612202520	666
Standard solutions for degree of coloration of liquids	Standard solution Y (yellow)	125 ml	612202530	666
Standard solutions for degree of coloration of liquids	Standard solution GY (greenish-yellow)	125 ml	612202540	666
Standard solutions for degree of coloration of liquids	Standard solution R (red)	125 ml	612202550	666

### Ph. Eur. Reagents, Chapter 2.2.25: Absorption spectrophotometry, ultraviolet and visible

The European Pharmacopoeia defines in his “Analytical Methods” parts and especially in chapter 2.2.25, the calibration of spectrophotometers absorption in the ultraviolet and visible.

For each parameter, the method of analysis recommends to use diluted solutions.

Among the multiple benefits, here are the most important:

- Reduces associated risk of handling some hazardous reagents
- Traceability according to NIST for raw material and instrumentation used to prepare and control the finish product
- Available in 100 ml amber bottles or permanently sealed cuvettes (possibility of re-calibration on request)
- Can be used with all UV-VIS Spectrophotometers

Description	Notes	Size	Code	Page
n-Hexane 99%	Spectrophotometry Bandwidth Blank	100 ml	506421	362
Holmium perchlorate in solution		10 ml	506472	368
Holmium perchlorate in solution		100 ml	506473	368
Potassium chloride 12g/l		10 ml	506432	541
Potassium chloride 12g/l		100 ml	506433	541
Potassium dichromate - Sulfuric acid solution	conc. 60 mg/l	10 ml	506442	545

Description	Notes	Size	Code	Page
Potassium dichromate - Sulfuric acid solution	conc. 600 mg/l	10 ml	506452	545
Potassium dichromate - Sulfuric acid solution	conc. 60 mg/l	100 ml	506443	545
Potassium dichromate - Sulfuric acid solution	conc. 600 mg/l	100 ml	506453	545
Sulfuric acid 0.0025 mol/l (0.005N)	Spectrophotometry Absorbance/Transmission Blank	100 ml	506401	685
Toluene in solution in hexane		10 ml	506462	709
Toluene in solution in hexane		100 ml	506463	709
Water	Spectrophotometry Stray Light Blank	100 ml	506411	729

### Ph. Eur. Reagents, Chapter 2.2.3: Potentiometric determination of pH

Description	Notes	Size	Code	Page
Buffer pH 1.68	pH 1.68 at 25°C	500 ml	612203168	203
Buffer pH 4	pH 4.01 at 25°C	500 ml	612203401	205
Buffer pH 6.88	pH 6.87 at 25°C	500 ml	612203687	207
Buffer pH 7.4	pH 7.41 at 25°C	500 ml	612203741	208
Buffer pH 9.22	pH 9.18 at 25°C	500 ml	612203918	209

### Ph. Eur. Reagents, Chapter 2.4.24: Identification and control of residual solvents

The International Conference on Harmonization (ICH) adopted the "Impurities: guidelines for residual solvents", which sets the pharmaceutical limits for residual solvents in the manufacturing of drug substances, excipients, and drug products. The methods used to determine these limits are described in chapter 467 of the USP and 2.4.24 of the European Pharmacopeia.

Three classes of solvents are categorized:

Class 1: Solvents to be avoided (Known human carcinogens, strongly suspected human carcinogens, environmental hazards)

Class 2: Residual solvents (Solvents to be limited, nongenotoxic animal carcinogens or possible causative agents of other irreversible toxicity, such as neurotoxicity or teratogenicity. Solvents suspected of other significant but reversible toxicities.)

Class 3: Residual Solvents (Solvents with Low Toxic Potential. Solvents with low toxic potential to humans; no health-based exposure limit is needed. Class 3 residual solvents may have PDEs of up to 50 mg or more per day.)

CARLO ERBA Reagents developed a product line of mixture of class 1 and 2 solvents, offered at concentrations within the acceptable limit mentioned in chapter "5.4 - Residual solvents". This allows you to control the amount of residual solvents in your starting material used in the manufacturing of drug products.

Advantages: delivered with a certificate of analysis guaranteeing total traceability :

- Lot number
- Expiration date
- CAS number of each component
- Molecular formula of each component
- Lot number of each starting material
- Concentration of each starting material
- Concentration variation limits

Description	Notes	Size	Code	Page
Mixtures for residual solvents analysis	5 elements (Class 1) : Benzene 4mg/ml; 1,2-Dichloroethane 10mg/ml; Tetrachloromethane 8mg/ml; 1,1-Dichloroethene 16mg/ml; 1,1,1-Tricloroethane 20mg/ml; Matrix : Dimethylsulphoxide	1 ml	507688	474
Mixtures for residual solvents analysis	6 elements (Class 2) : Ethyleneglycol-monoethyl ether (2-Ethoxyethanol) 160mg/l; Ethyleneglycol 620mg/l; Formamide 220mg/l; Ethylene glycol-monomethyl ether (2-Methoxyethanol) 50mg/l; 1-Methyl-2-pyrrolidon 4840mg/l; Sulfolan 160mg/l; Matrix : Water	1 ml	507691	474

### Ph. Eur. Reagents, Chapter 4.1.1: Reagents

Description	Notes	Size	Code	Page
Acetic acid 30%	Ref Ph.Eur 1000401	1 l	611000401	122
Acetic acid 12%	Ref Ph.Eur 1000402	1 l	611000402	123
Acetic anhydride	Acetic anhydride solution R1 Ref Ph.Eur 1000501	1 l	611000501	125

Description	Notes	Size	Code	Page
Aminohippuric acid reagent	Ref Ph.Eur 1003701	100 ml	611003701	145
Ammonia solution 17%	Ref Ph.Eur 1004701	250 ml	611004701	150
Ammonia solution diluted	Ammonia, dilute R1 Ref Ph.Eur 1004702	1 l	611004702	151
Ammonia solution diluted	Ammonia, dilute R2 Ref Ph.Eur 1004703	1 l	611004703	151
Ammoniacal solution of copper tetrammine	Ref Ph.Eur 1022600	100 ml	611022600	151
Ammonium carbonate solution 158 g/l	Ref Ph.Eur 1005201	1 l	611005201	155
Ammonium molybdate solution	Ammonium molybdate solution R2 Ref Ph.Eur 1005703	1 l	611005703	160
Anisaldehyde solution	Ref Ph.Eur 1007301	100 ml	611007301	167
Anisaldehyde solution	Anisaldehyde solution R1 Ref Ph.Eur 1007302	100 ml	611007302	167
Antimony trichloride	Ref Ph.Eur 1007701	100 ml	611007701	170
Barium chloride solution 61 g/l	Barium chloride solution R1 Ref Ph.Eur 1009301	100 ml	611009303	181
Barium chloride solution 61 g/l	Barium chloride solution R1 Ref Ph.Eur 1009301	250 ml	611009309	181
Barium chloride solution 61 g/l	Barium chloride solution R1 Ref Ph.Eur 1009301	1 l	611009301	181
Barium hydroxide solution 47.3 g/l	Ref Ph.Eur 1009401	250 ml	611009409	182
Barium hydroxide solution 47.3 g/l	Ref Ph.Eur 1009401	1 l	611009401	182
Biuret reagent	Biuret reagent Ref Ph.Eur 1011601	1 l	611011601	193
Bromine solution	Ref Ph.Eur 1012401	100 ml	611012401	198
Bromine water	Ref Ph.Eur 1012402	50 ml	611012409	198
Bromine water	Ref Ph.Eur 1012402	100 ml	611012402	198
Bromocresol green solution	Ref Ph.Eur 1012601 / Colour change : pH 3.6 (yellow) to pH 5.2 (blue)	100 ml	611012601	199
Bromocresol green - Methyl red solution	Ref Ph.Eur 1012602	100 ml	611012602	199
Bromocresol purple solution	Ref Ph.Eur 1012701	100 ml	611012701	200
Bromophenol blue solution	Ref Ph.Eur 1012801/Colour change : pH 2.8 (yellow) à pH 4.4 (bleu-violet)	100 ml	611012801	201
Bromophenol blue solution	Bromophenol blue solution R1 Ref Ph.Eur 1012802	100 ml	611012802	201
Bromophenol blue solution	Bromophenol blue solution R2 Ref Ph.Eur 1012803	100 ml	611012803	201
Bromothymol blue solution	Bromothymol blue solution R1 Ref Ph.Eur 1012901/ Colour change : pH 5.8 (yellow) to pH 7.4 (blue)	100 ml	611012901	203
Bromothymol blue solution	Bromothymol blue solution R3 Ref Ph.Eur 1012903	100 ml	611012903	203
Calcium sulfate hemihydrate solution	Ref Ph.Eur 1015201	100 ml	611015202	232
Calcium sulfate hemihydrate solution	Ref Ph.Eur 1015201	1 l	611015201	232
Chloral hydrate	Ref Ph.Eur 1017901	100 ml	611017901	242
2-Chloroethanol solution	Ref Ph.Eur 1097501	100 ml	611097501	245
Congo red solution	Ref Ph.Eur 1022001	100 ml	611022001	259
Copper (II) sulfate solution 12.5%	Ref Ph.Eur 1022500	100 ml	611022501	266
Crystal violet solution 0.5% in anhydrous acetic acid	Ref Ph.Eur 1022901	100 ml	611022901	268
Cupri-citric solution	Ref Ph.Eur 1023100	1 l	611023100	268
Cupri-tartaric solution	Ref Ph.Eur 1023300	2 x 500 ml	611023300	269
Dichloromethane acidified with 1% hydrochloric acid	Ref Ph.Eur 1055901	100 ml	611055901	286
1,4-Dioxane	Dioxane stock solution 1.0 mg/ml Ref Ph.Eur 1032001	50 ml	611032001	301
1,4-Dioxane	Dioxane solution 0.5 mg/ml Ref Ph.Eur 1032002	100 ml	611032002	301
1,4-Dioxane	Dioxane solution R1 0.1 mg/ml Ref Ph.Eur 1032003	50 ml	611032003	301

Description	Notes	Size	Code	Page
Diphenylamine solution 1% in sulfuric acid	Ref Ph.Eur 1032101	100 ml	611032109	302
Diphenylamine solution 1% in sulfuric acid	Ref Ph.Eur 1032101	1 l	611032101	302
Diphenylamine solution 1% in sulfuric acid	Diphenylamine solution R1 Ref Ph.Eur 1032102	1 l	611032102	302
Eriochrome black T	Ref Ph.Eur 1056801	100 g	611056801	309
Ethylene oxide solution	Ethylene oxide solution R5 Ref Ph.Eur 1036408	1 ml	611036408	328
Ethylene oxide solution	Ethylene oxide stock solution Ref Ph.Eur 1036401	10 ml	611036401	328
Ferrouin 0.025 mol/l solution	Ref Ph.Eur 1038100	100 ml	611038100	332
Formaldehyde 35% w/w	Ref Ph.Eur 1039101	100 ml	611039101	337
Fuchsin solution decolorised	Ref Ph.Eur 1039401	100 ml	611039401	343
Fuchsin solution decolorised	Fuchsin solution, decolorised R1 Ref Ph.Eur 1039402	100 ml	611039402	343
Holmium perchlorate in solution	Ref Ph.Eur 1043101	1 l	611043101	368
Hydrochloric acid 25% w/v	Hydrochloric acid R1 Ref Ph.Eur 1043501	1 l	611043501	374
Hydrochloric acid, dilute	Ref Ph.Eur 1043503	1 l	611043503	384
Hydrochloric acid, dilute	Hydrochloric acid, dilute R1 Ref Ph.Eur 1043504	1 l	611043504	384
Hydrochloric acid, brominated	Ref Ph.Eur 1043507	1 l	611043507	384
Hydroxylamine solution, alcoholic	Ref Ph.Eur 1044301	100 ml	611044301	389
Indigo carmine solution	Ref Ph.Eur 1045601	1 l	611045601	394
Iodine bromide solution	Ref Ph.Eur 1045901	1 l	611045901	399
Iodoplatinate reagent	Ref Ph.Eur 1046300	200 ml	611046309	399
Iodoplatinate reagent	Ref Ph.Eur 1046300	1 l	611046300	399
Iron (III) ammonium sulfate solution 100 g/l	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702	100 ml	611037703	404
Iron (III) ammonium sulfate solution 100 g/l	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702	1 l	611037702	404
Lanthanum nitrate solution 50 g/l	Ref Ph.Eur 1048001	1 l	611048001	424
Lead (II) acetate basic solution	Ref Ph.Eur 1048400	100 ml	611048400	426
Lead (II) acetate solution 95 g/l	Ref Ph.Eur 1048103	100 ml	611048103	426
Lead (II) acetate cotton	Ref Ph.Eur 1048101	10 g	611048101	427
Lead (II) acetate paper	Ref Ph.Eur 1048102	50 pc	611048102	427
Lead (II) nitrate solution 33 g/l	Ref Ph.Eur 1048301	1 l	611048301	428
Litmus paper	Ref Ph.Eur 1049301	50	611049301	434
Malachite green solution 0.5% in acetic acid anhydrous	Ref Ph.Eur 1050501	1 l	611050501	444
Mercuric bromide paper	Ref Ph.Eur 1052101	50 pc	611052101	451
Mercury chloride solution 54 g/l	Ref Ph.Eur 1052201	100 ml	611052201	453
Mercury sulfate solution	Ref Ph.Eur 1052600	100 ml	611052600	454
Methanol, hydrochloric	Ref Ph.Eur 1053203	100 ml	611053203	459
Methyl Orange solution 0.1%	Solution in ethanol Ref Ph.Eur 1054802	100 ml	611054802	467
Methyl orange mixed solution	Ref Ph.Eur 1054801	100 ml	611054801	467
Methyl red solution	Ref Ph.Eur 1055102	100 ml	611055102	469
Methyl red mixed solution	Ref Ph.Eur 1055101	100 ml	611055101	470
Molybdovanadic reagent	Ref Ph.Eur 1056700	100 ml	611056700	476
alpha-Naphtholbenzein solution 0.2% in acetic acid	Ref Ph.Eur 1057601	100 ml	611057601	482
Ninhydrin solution	Ninhydrin solution R1 Ref Ph.Eur 1058304	100 ml	611058304	489
Ninhydrin solution	Ninhydrin solution R2 Ref Ph.Eur 1058305	100 ml	611058305	489
Ninhydrin and stannous chloride reagent	Ref Ph.Eur 1058301	100 ml	611058301	490
Nitric acid, dilute	Ref Ph.Eur 1058402	100 ml	611058402	496
Nitric acid, dilute	Ref Ph.Eur 1058402	250 ml	611058409	496
Pararosaniline solution, decolorised	Ref Ph.Eur 1062201	100 ml	611062201	511

Description	Notes	Size	Code	Page
Perchloric acid solution	Ref Ph.Eur 1062901	100 ml	611062901	517
Phenol red solution	Ref Ph.Eur 1063601 / Colour change: pH 6.8 (yellow) to pH 8.4 (reddish-violet)	100 ml	611063601	525
Phenol red solution	Phenol red solution R2 Ref Ph.Eur 1063603	500 ml	611063603	525
Phenolphthalein solution 1% in ethanol	Phenolphthalein solution R1 Ref Ph.Eur 1063703	100 ml	611063703	526
Phenolphthalein solution 0.1%	Ref Ph.Eur 1063702	100 ml	611063702	526
Phenylhydrazine hydrochloride solution	Ref Ph.Eur 1064501	100 ml	611064501	528
Phosphomolybdotungstic reagent	Ref Ph.Eur 1065000	100 ml	611065000	530
Phosphotungstic acid solution	Ref Ph.Eur 1065200	100 ml	611065200	532
Picric acid solution	Ref Ph.Eur 1065801	100 ml	611065801	533
Picric acid solution	Picric acid solution R1 Ref Ph.Eur 1065802	100 ml	611065802	533
Potassium chloride 0.1 mol/l (0.1N)	Ref Ph.Eur 1069101	1 l	611069101	542
Potassium chromate 5% solution	Ref Ph.Eur 1069201	1 l	611069201	543
Potassium dichromate solution 0.5%	Potassium dichromate solution R1 Ref Ph.Eur 1069502	100 ml	611069509	546
Potassium dichromate solution 0.5%	Potassium dichromate solution R1 Ref Ph.Eur 1069502	1 l	611069502	546
Potassium dichromate solution 106 g/l	Ref Ph.Eur 1069501	1 l	611069501	546
Potassium ferrocyanide solution 53 g/l	Ref Ph.Eur 1069801	100 ml	611069801	548
Potassium hydrogen phthalate 0.2 mol/l (0.2N)	Ref Ph.Eur 1070001	1 l	611070001	551
Potassium hydroxide solution 3% in ethanol	Ref Ph.Eur 1070303	100 ml	611070303	553
Potassium hydroxide 2 mol/l (2N) in ethanol	Ref Ph.Eur 1070301	100 ml	611070301	554
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	Ref Ph.Eur 1070302	1 l	611070302	555
Potassium iodide solution	Solution saturated Ref Ph.Eur 1070504	100 ml	611070504	560
Potassium iodide solution	Solution iodinated R1 Ref Ph.Eur 1070505	100 ml	611070505	560
Potassium iodide solution	Potassium iodide solution 166 g/l Ref Ph.Eur 1070502	1 l	611070502	560
Potassium iodobismuthate solution	Ref Ph.Eur 1070600	100 ml	611070600	560
Potassium iodobismuthate solution	Potassium iodobismuthate solution R2 Ref Ph.Eur 1070602	100 ml	611070602	560
Potassium permanganate solution 3%	Ref Ph.Eur 1070902	1 l	611070902	564
Potassium permanganate and phosphoric acid solution	Ref Ph.Eur 1070901	100 ml	611070901	564
Potassium phosphate monobasic 0.2 mol/l (0.2N)	Ref Ph.Eur 1069601	1 l	611069601	566
Potassium pyroantimonate solution	Ref Ph.Eur 1071300	100 ml	611071303	567
Potassium pyroantimonate solution	Ref Ph.Eur 1071300	250 ml	611071309	567
Potassium pyroantimonate solution	Ref Ph.Eur 1071300	1 l	611071302	567
Potassium tetraiodomercurate solution, alkaline	Ref Ph.Eur 1071600	200 ml	611071600	570
Potassium thiocyanate solution	A 97 g/l solution Ref Ph.Eur 1071801	1 l	611071801	571
Salicylaldehyde azine	Ref Ph.Eur 1075500	100 ml	611075500	592
Silver manganese paper	Ref Ph.Eur 1078200	50	611078200	604
Silver nitrate solution	Silver nitrate R2 Ref Ph.Eur 1078302	100 ml	611078306	607
Silver nitrate solution	Silver nitrate R1 Ref Ph.Eur 1078301	100 ml	611078307	607
Silver nitrate solution	Silver nitrate R1 Ref Ph.Eur 1078301	1 l	611078301	607
Silver nitrate solution	Silver nitrate R2 Ref Ph.Eur 1078302	1 l	611078302	607
Sodium carbonate solution	A 106 g/l solution ref Ph.Eur 1079301	1 l	611079301	618
Sodium hydroxide solution 20% w/v	Ref Ph.Eur 1081401	1 l	611081401	629
Sodium hydroxide solution	Ref Ph.Eur 1081402	1 l	611081402	631
Sodium hydroxide solution	Sodium hydroxide solution, strong Ref Ph.Eur 1081404	1 l	611081404	631
Sodium hydroxide solution, methanolic	Sodium hydroxide solution, methanolic R1 Ref Ph.Eur 1081405	100 ml	611081405	631

Description	Notes	Size	Code	Page
Sodium hypochlorite solution in water	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600	250 ml	611081609	638
Sodium hypochlorite solution in water	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600	1 l	611081600	638
Sodium sulfide nonahydrate solution	Ref Ph.Eur 1083901	100 ml	611083901	653
Sodium sulfide nonahydrate solution	Sodium sulfide solution R1 Ref Ph.Eur 1083902	100 ml	611083902	653
Starch soluble solution	Ref Ph.Eur 1085103	100 ml	611085103	667
Starch soluble solution	Ref Ph.Eur 1085103	1 l	611085104	667
Sulfomolybdic reagent	Sulfomolybdic reagent R3 Ref Ph.Eur 1086500	100 ml	611086500	674
Sulfuric acid, dilute	A 98 g/l solution Ref Ph.Eur 1086804	1 l	611086804	686
Thioacetamide solution 40 g/l	Ref Ph.Eur 1089602	100 ml	611089603	697
Thioacetamide solution 40 g/l	Ref Ph.Eur 1089602	1 l	611089602	697
Thymol blue solution	Ref Ph.Eur 1090601	100 ml	611090601	700
Thymolphthalein solution 0.1% in ethanol	Ref Ph.Eur 1090701	100 ml	611090701	701
Tin (II) chloride solution	Ref Ph.Eur 1085001	100 ml	611085001	703
Titanium trichloride-sulfuric acid reagent	Ref Ph.Eur 1091202	100 ml	611091202	707
o-Tolidine solution	Ref Ph.Eur 1123001	500 ml	611123001	707
Tris(hydroxymethyl)aminomethane solution	Ref Ph.Eur 1094201	100 ml	611094201	720
Vanillin solution, phosphoric	Ref Ph.Eur 1095302	100 ml	611095302	726
Water	Water ammonium-free Ref Ph.Eur 1095501	1 l	611095501	729
Water	Water nitrate-free Ref Ph.Eur 1095506	1 l	611095506	729
Zinc, activated	Ref Ph.Eur 1096501	100 g	611096501	739
Zinc acetate solution	Ref Ph.Eur 1102301	1 l	611102301	739
Zinc chloride solution, iodinated	Ref Ph.Eur 1096602	500 ml	611096603	741
Zinc chloride solution, iodinated	Ref Ph.Eur 1096602	1 l	611096602	741
Zinc chloride-formic acid solution	Ref Ph.Eur 1096601	1 l	611096601	741

## Ph. Eur. Reagents Chapter 4.1.2: Standard solutions for limit tests

To be diluted immediately prior to use, as set out in the pharmacopoeia

Description	Notes	Size	Code	Page
Aluminum standard solution	A 200 ppm solution Ref Ph.Eur 5000200	100 ml	615000200	138
Aluminum standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000201	100 ml	615000201	138
Aluminum standard solution	A 2 ppm solution : to dilute according to Ref Ph.Eur 5000202	100 ml	615000202	138
Aluminum standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000203	100 ml	615000203	138
Ammonium standard solution	A 2.5 ppm solution : to dilute according to Ref Ph.Eur 5000301	100 ml	615000301	152
Ammonium standard solution	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000302	100 ml	615000302	152
Ammonium standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000300	100 ml	615000309	152
Antimony standard solution	A 100 ppm solution Ref Ph.Eur 5000400	100 ml	615000400	168
Arsenic standard solution	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000501	100 ml	615000501	171
Arsenic standard solution	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5000502	100 ml	615000502	171
Arsenic standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000500	100 ml	615000509	171
Barium standard solution	A 0.1 % solution Ref Ph.Eur 5000601	100 ml	615000601	178
Barium standard solution	A 50 ppm solution : to dilute according to Ref Ph.Eur 5000600	100 ml	615000609	178

Description	Notes	Size	Code	Page
Bismuth standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5005300	100 ml	615005300	191
Cadmium standard solution	A 0.1 % solution Ref Ph.Eur 5000700	100 ml	615000700	219
Cadmium standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000701	100 ml	615000709	219
Calcium standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000801	100 ml	615000801	221
Calcium standard solution	A 100 ppm alcoholic solution : to dilute according to Ph.Eur 5000802	100 ml	615000802	221
Calcium standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000803	100 ml	615000803	221
Calcium standard solution	A 100 ppm solution R1: to dilute according to Ref Ph.Eur 5000804	100 ml	615000804	221
Calcium standard solution	A 400 ppm solution : to dilute according to Ref Ph.Eur 5000800	100 ml	615000809	221
Chloride standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5000901	100 ml	615000901	243
Chloride standard solution	A 8 ppm solution : to dilute according to Ref Ph.Eur 5000900	100 ml	615000909	243
Chloride standard solution	A 50 ppm solution : to dilute according to Ref Ph.Eur 5004100	100 ml	615004100	243
Chromium standard solution	A 0.1 % solution Ref Ph.Eur 5001002	100 ml	615001002	251
Chromium standard solution	A 100 ppm solution Ref Ph.Eur 5001000	1 l	615001000	251
Cobalt standard solution	A 100 ppm solution Ref Ph.Eur 5004300	1 l	615004300	256
Copper standard solution	A 0.1 % solution Ref Ph.Eur 5001100	100 ml	615001100	260
Ferricyanide standard solution	A 50 ppm solution : to dilute according to Ph.Eur 5001300	100 ml	615001300	331
Ferrocyanide standard solution	A 100 ppm solution : to dilute according to Ph.Eur 5001200	100 ml	615001209	331
Fluoride standard solution	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001401	100 ml	615001401	336
Fluoride standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001400	100 ml	615001409	336
Germanium standard solution	A 100 ppm solution Ref Ph.Eur 5004400	1 l	615004400	347
Glyoxal standard solution	A 20 ppm solution : to dilute according to Ph.Eur 5003700	100 ml	615003700	351
Iodine 10 ppm	Concentrated solution : to dilute according to Ref Ph.Eur 5003800	100 ml	615003809	398
Iron standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001601	100 ml	615001601	400
Iron standard solution	A 8 ppm solution : to dilute according to Ref Ph.Eur 5001602	100 ml	615001602	400
Iron standard solution	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001603	100 ml	615001603	400
Iron standard solution	A 0.1 % solution Ref Ph.Eur 5001605	100 ml	615001605	400
Iron standard solution	A 250 ppm solution : to dilute according to Ref Ph.Eur 5001606	100 ml	615001606	400
Iron standard solution	A 20 ppm solution : to dilute according to Ref Ph.Eur 5001600	100 ml	615001609	400
Lead standard solution	A 0.1 % solution Ref Ph.Eur 5001700	100 ml	615001700	425
Lead standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001702	100 ml	615001702	425
Lead standard solution	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001703	100 ml	615001703	425
Lead standard solution	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001704	100 ml	615001704	425
Lead standard solution	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5001705	100 ml	615001705	425



Description	Notes	Size	Code	Page
Lead standard solution	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5001706	100 ml	615001706	425
Lead standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001701	100 ml	615001709	425
Lead standard solution	A 0.1 % solution Ref Ph.Eur 5001700	500 ml	615001701	425
Magnesium standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001801	100 ml	615001801	437
Magnesium standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001802	100 ml	615001802	437
Magnesium standard solution	A 0.1 % solution Ref Ph.Eur 5001803	100 ml	615001803	437
Magnesium standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001800	100 ml	615001809	437
Manganese standard solution	A 100 ppm solution Ref Ph.Eur 5004500	1 l	615004500	446
Manganese standard solution	A 1.000 ppm solution Ref Ph.Eur 5005800	1 l	615005800	446
Mercury standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001901	100 ml	615001901	451
Mercury standard solution	A 1000 ppm solution Ref Ph.Eur 5001900	1 l	615001900	451
Nickel standard solution	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5002001	100 ml	615002001	485
Nickel standard solution	A 0.2 ppm solution : to dilute according to Ref Ph.Eur 5002002	100 ml	615002002	485
Nickel standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002000	100 ml	615002009	485
Nitrate standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002101	100 ml	615002101	490
Nitrate standard solution	A 2 ppm solution : to dilute according to Ref Ph.Eur 5002102	100 ml	615002102	490
Nitrate standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002100	100 ml	615002109	490
Palladium standard solution	A 500 ppm solution Ref Ph.Eur 5003600	100 ml	615003600	508
Phosphate standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002200	100 ml	615002200	528
Phosphate standard solution	A 200 ppm solution Ref Ph.Eur 5004200	1 l	615004200	528
Potassium standard solution	A 20 ppm solution : to dilute according to Ref Ph.Eur 5002401	100 ml	615002401	535
Potassium standard solution	A 0.1 % solution Ref Ph.Eur 5002402	100 ml	615002402	535
Potassium standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002400	100 ml	615002409	535
Potassium standard solution	A 600 ppm solution : to dilute according to Ref Ph.Eur 5005100	100 ml	615005100	535
Selenium standard solution	A 1 ppm solution Ref Ph.Eur 5002501	100 ml	615002501	596
Selenium standard solution	A 100 ppm solution Ref Ph.Eur 5002500	1 l	615002500	596
Silver standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002600	100 ml	615002609	601
Sodium standard solution	A 50 ppm solution : to dilute according to Ref Ph.Eur 5002701	100 ml	615002701	609
Sodium standard solution	A 200 ppm solution : to dilute according to Ref Ph.Eur 5002700	100 ml	615002709	609
Sodium standard solution	A 1000 ppm solution Ref Ph.Eur 5005700	1 l	615005700	609
Sulfate standard solution	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5002801	100 ml	615002801	673
Sulfate standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002802	100 ml	615002802	673
Sulfate standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002800	100 ml	615002809	673
Sulfite standard solution	A 1,5 ppm solution Ref Ph.Eur 5002900	100 ml	615002900	674
Thallium standard solution	A 10 ppm solution Ref Ph.Eur 5003000	100 ml	615003000	696

Description	Notes	Size	Code	Page
Tin standard solution	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5003101	100 ml	615003101	702
Tin standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003100	100 ml	615003109	702
Titanium standard solution	A 100 ppm solution Ref Ph.Eur 5003200	1 l	615003200	705
Vanadium standard solution	A 1 g/l solution Ref Ph.Eur 5003300	100 ml	615003300	725
Zinc standard solution	A 5mg/l solution Ref Ph.Eur 5003400	100 ml	615003400	737
Zinc standard solution	A 10 ppm solution : to dilute according to Ref Ph.Eur 5003402	100 ml	615003402	737
Zinc standard solution	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003403	100 ml	615003403	737
Zinc standard solution	A 100 ppm solution : to dilute according to Ref Ph.Eur 5003401	100 ml	615003409	737
Zirconium standard solution	A 1 g/l solution Ref Ph.Eur 5003500	100 ml	615003500	744

### Ph. Eur. Reagents Chapter 4.1.3: Buffers Solutions

Description	Notes	Size	Code	Page
Acetate buffer pH 4.6	Ref Ph.Eur 4001400	1 l	614001400	117
Acetate buffer pH 6.0	Ref Ph.Eur 4002200	1 l	614002200	118
Acetone	Buffered acetone solution Ref Ph.Eur 4000100	1 l	614000100	127
Ammonium chloride buffer solution pH 10.7	Ref Ph.Eur 4013400	1 l	614013400	156
Ammonium chloride buffer solution pH 10.0	Ref Ph.Eur 4007300	100 ml	614007301	156
Ammonium chloride buffer solution pH 10.0	Ref Ph.Eur 4007300	1 l	614007300	156
Ammonium chloride buffer solution pH 9.5	Ref Ph.Eur 4007200	1 l	614007200	156
Buffer pH 2	Ref Ph.Eur 4000200	1 l	614000200	204
Buffer pH 3.5	Ref Ph.Eur 4000600	250 ml	614000601	204
Buffer pH 3.5	Ref Ph.Eur 4000600	1 l	614000600	204
Buffer pH 3.7	Ref Ph.Eur 4000900	1 l	614000900	205
Buffer pH 5.2	Ref Ph.Eur 4001700	1 l	614001700	206
Buffer pH 7	Ref Ph.Eur 4003500	1 l	614003500	207
Buffer pH 7.4	Ref Ph.Eur 4004600	1 l	614004600	208
Buffer pH 9	Ref Ph.Eur 4000700	1 l	614007000	209
Phosphate buffer pH 2.0	Ref Ph.Eur 4007900	1 l	614007900	529
Phosphate buffer pH 3.0	Ref Ph.Eur 4000500	100 ml	614000501	529
Phosphate buffer pH 3.0	Ref Ph.Eur 4000500	1 l	614000500	529
Phosphate buffer pH 5.5	Ref Ph.Eur 4002000	1 l	614002000	529
Phosphate buffer pH 6.8	Ref Ph.Eur 4003400	1 l	614003400	529
Phosphate buffer pH 6.0	Ref Ph.Eur 4002400	1 l	614002400	529
Phosphate buffer pH 7.4	Ref Ph.Eur 4004800	1 l	614004800	530
Phosphate buffer pH 9.0	Ref Ph.Eur 4008300	1 l	614008300	530
Total-ionic-strength-adjustment buffer	Ref Ph.Eur 4007700	1 l	614007700	711
Total-ionic-strength-adjustment buffer	Total ionic strength adjustment buffer R1 Ref Ph.Eur 4008800	1 l	614008800	711
Tris(hydroxymethyl)aminomethane buffer solution pH 8.1	Ref Ph.Eur 4006200	1 l	614006200	720
Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4	Ref Ph.Eur 4006600	1 l	614006600	720
Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4	Ref Ph.Eur 4004900	1 l	614004900	721

## Ph. Eur. Reagents Chapter 4.2.1: Primary standards for volumetric solutions

Description	Notes	Size	Code	Page
Benzoic acid	Ref Ph.Eur 2000200	100 g	612000200	187
Potassium bromate	Ref Ph.Eur 2000300	50 g	612000300	538
Potassium hydrogen phthalate	Ref Ph.Eur 2000400	50 g	612000400	550
Sodium carbonate monohydrate	Ref Ph.Eur 2000500	50 g	612000500	617
Sodium chloride	Ref Ph.Eur 2000600	250 g	612000600	618
Sulfanilic acid	Ref Ph.Eur 2000700	100 g	612000700	673
Zinc standard solution	Ref Ph.Eur 2000800	100 g	612000800	737

## Ph. Eur. Reagents Chapter 4.2.2: Volumetric solutions

Description	Notes	Size	Code	Page
Ammonium thiocyanate 0.1 mol/l (0.1N)	Ref Ph.Eur 3000500	500 ml	613000501	165
Ammonium thiocyanate 0.1 mol/l (0.1N)	Ref Ph.Eur 3000500	1 l	613000500	165
Barium chloride 0.1 mol/l (0.2N)	Ref Ph.Eur 3000600	1 l	613000600	181
Barium perchlorate 0.05 mol/l	Ref Ph.Eur 3000700	1 l	613000700	183
Barium perchlorate 0.025 mol/l	Ref Ph.Eur 3009600	500 ml	613009601	183
Barium perchlorate 0.025 mol/l	Ref Ph.Eur 3009600	1 l	613009600	183
Bis(ethylenediamine)copper(II) hydroxide solution 1 mol/l	Ref Ph.Eur 3008700	1 l	613008700	190
Bromide - bromate 0.0167 mol/l	Ref Ph.Eur 3001000	1 l	613001000	198
Cerium (IV) ammonium nitrate 0.1 mol/l	Ref Ph.Eur 3000100	1 l	613000100	237
Cerium (IV) ammonium nitrate 0.01 mol/l	Ref Ph.Eur 3000200	1 l	613000200	237
Cerium (IV) ammonium sulfate 0.1 mol/l	Ref Ph.Eur 3000300	1 l	613000300	238
Cerium (IV) ammonium sulfate 0.01 mol/l	Ref Ph.Eur 3000400	1 l	613000400	238
Cerium (IV) sulfate 0.1 mol/l	Ref Ph.Eur 3000300	250 ml	613000301	239
Cerium (IV) sulfate 0.1 mol/l	Ref Ph.Eur 3001100	500 ml	613001101	239
Cerium (IV) sulfate 0.1 mol/l	Ref Ph.Eur 3001100	1 l	613001100	239
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Ref Ph.Eur 3005900	500 ml	613005901	325
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Ref Ph.Eur 3005900	1 l	613005900	325
Hyamine 1622 solution 0.004M	Ref Ph.Eur 3000900	100 ml	613000901	369
Hyamine 1622 solution 0.004M	Ref Ph.Eur 3000900	1 l	613000900	369
Hydrochloric acid 6 mol/l (6N)	Ref Ph.Eur 3001500	1 l	613001500	376
Hydrochloric acid 2 mol/l (2N)	Ref Ph.Eur 3001700	1 l	613001700	378
Hydrochloric acid 1 mol/l (1N)	Ref Ph.Eur 3001800	500 ml	613001801	378
Hydrochloric acid 1 mol/l (1N)	Ref Ph.Eur 3001800	1 l	613001800	378
Hydrochloric acid 0.1 mol/l (0.1N)	Ref Ph.Eur 3002100	500 ml	613002101	381
Hydrochloric acid 0.1 mol/l (0.1N)	Ref Ph.Eur 3002100	1 l	613002100	381
Hydrochloric acid 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3008800	1 l	613008800	381
Iodine 0.5 mol/l (1N)	Ref Ph.Eur 3009400	1 l	613009400	397
Iodine 0.05 mol/l (0.1N)	Ref Ph.Eur 3002700	1 l	613002700	398
Iodine 0.01 mol/l (0.02N)	Ref Ph.Eur 3002900	1 l	613002900	398
Iron (III) ammonium sulfate 0.1 mol/l	Ref Ph.Eur 3001300	1 l	613001300	403
Iron (II) sulfate 0.1 mol/l	Ref Ph.Eur 3001400	1 l	613001400	407
Lanthanum nitrate 0.1 mol/l	Ref Ph.Eur 3010100	1 l	613010100	424
Lead (II) nitrate 0.05 mol/l	Ref Ph.Eur 3009700	100 ml	613009700	428
Lead (II) nitrate 0.1 mol/l	Ref Ph.Eur 3003100	500 ml	613003101	428

Description	Notes	Size	Code	Page
Lead (II) nitrate 0.1 mol/l	Ref Ph.Eur 3003100	1 l	613003100	428
Perchloric acid 0.1 mol/l (0.1N)	Ref Ph.Eur 3003900	1 l	613003900	516
Perchloric acid 0.05 mol/l (0.05N)	Ref Ph.Eur 3004000	1 l	613004000	517
Potassium bromate 0.033 mol/l (0.198N)	Ref Ph.Eur 3004200	1 l	613004200	538
Potassium bromate 0.02 mol/l (0.12N)	Ref Ph.Eur 3004300	1 l	613004300	538
Potassium dichromate 0.0167 mol/l (0.1 N)	Ref Ph.Eur 3004600	1 l	613004600	545
Potassium hydroxide 1 mol/l (1N)	Ref Ph.Eur 3009100	1 l	613009100	554
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	Ref Ph.Eur 3004900	1 l	613004900	555
Potassium hydroxide 0.1 mol/l (0.1N)	Ref Ph.Eur 3004800	1 l	613004800	556
Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3005100	1 l	613005100	557
Potassium iodate 0.05 mol/l	Ref Ph.Eur 3005200	1 l	613005200	558
Potassium permanganate 0.02 mol/l (0.1N)	Ref Ph.Eur 3005300	100 ml	613005301	563
Potassium permanganate 0.02 mol/l (0.1N)	Ref Ph.Eur 3005300	250 ml	613005309	563
Potassium permanganate 0.02 mol/l (0.1N)	Ref Ph.Eur 3005300	1 l	613005300	563
Silver nitrate 0.1 mol/l (0.1N)	Ref Ph.Eur 3005600	1 l	613005600	605
Sodium arsenite 0.1 mol/l (0.2N)	Ref Ph.Eur 3005800	1 l	613005800	612
Sodium hydroxide 1 mol/l (1N)	Ref Ph.Eur 3006300	500 ml	613006301	633
Sodium hydroxide 1 mol/l (1N)	Ref Ph.Eur 3006300	1 l	613006300	633
Sodium hydroxide 0.1 mol/l (N/10)	Ref Ph.Eur 3006600	500 ml	613006601	636
Sodium hydroxide 0.1 mol/l (N/10)	Ref Ph.Eur 3006600	1 l	613006600	636
Sodium hydroxide 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3007000	100 ml	613007001	637
Sodium hydroxide 0.1 mol/l (0.1N) in ethanol	Ref Ph.Eur 3007000	1 l	613007000	637
Sodium methoxide 0.1 mol/l	Ref Ph.Eur 3007100	100 ml	613007101	641
Sodium methoxide 0.1 mol/l	Ref Ph.Eur 3007100	1 l	613007100	641
Sodium nitrite 0.1 mol/l (0.1N)	Ref Ph.Eur 3007200	1 l	613007200	643
Sodium thiosulfate 0.1 mol/l (0.1N)	Ref Ph.Eur 3007300	500 ml	613007301	657
Sodium thiosulfate 0.1 mol/l (0.1N)	Ref Ph.Eur 3007300	1 l	613007300	657
Sulfuric acid 0.5 mol/l (1N)	Ref Ph.Eur 3007800	1 l	613007800	681
Sulfuric acid 0.05 mol/l (0.1N)	Ref Ph.Eur 3008000	500 ml	613008001	683
Sulfuric acid 0.05 mol/l (0.1N)	Ref Ph.Eur 3008000	1 l	613008000	683
Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N)	Ref Ph.Eur 3008300	1 l	613008300	691
Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol	Ref Ph.Eur 3008400	1 l	613008400	691
Zinc sulfate 0.1 mol/l (0.2N)	Ref Ph.Eur 3008600	500 ml	613008601	743
Zinc sulfate 0.1 mol/l (0.2N)	Ref Ph.Eur 3008600	1 l	613008600	743

## Standards for physical and chemicals characteristics

In order to help you to save time, CARLO ERBA Reagents enlarges its range of standards for quality control laboratories: melting point standards, colour standard, osmolality standards, density standards, brix standards, refractive index standards. Traceability, reliability are the key word of these products. You will find the most common used items but others are available. Don't hesitate to contact us if you don't find exactly what you need.

Description	Notes	Size	Code	Page
ASTM colour standards	Sample A1	100 ml	540601	173
ASTM colour standards	Sample A3	100 ml	540602	173
ASTM colour standards	Sample A5	100 ml	540603	173
ASTM colour standards	Sample A5	100 ml	540604	173
Brix Standards	Sucrose Stabilised 0%, Nominal Refractive Index @ 20°C : 1.332986	15 ml	540201	197
Brix Standards	Sucrose Stabilised 5%, Nominal Refractive Index @ 20°C : 1.340264	15 ml	540202	197
Brix Standards	Sucrose Stabilised 7%, Nominal Refractive Index @ 20°C : 1.343253	15 ml	540203	197

Description	Notes	Size	Code	Page
Brix Standards	Sucrose Stabilised 10%, Nominal Refractive Index @ 20°C : 1.347824	15 ml	540204	197
Brix Standards	Sucrose Stabilised 11.5%, Nominal Refractive Index @ 20°C : 1.350149	15 ml	540205	197
Brix Standards	Sucrose Stabilised 12%, Nominal Refractive Index @ 20°C : 1.350930	15 ml	540206	197
Brix Standards	Sucrose Stabilised 15%, Nominal Refractive Index @ 20°C : 1.355679	15 ml	540207	197
Brix Standards	Sucrose Stabilised 20%, Nominal Refractive Index @ 20°C : 1.363842	15 ml	540208	197
Brix Standards	Sucrose Stabilised 25%, Nominal Refractive Index @ 20°C : 1.372328	15 ml	540209	197
Brix Standards	Sucrose Stabilised 30%, Nominal Refractive Index @ 20°C : 1.381149	15 ml	540210	197
Brix Standards	Sucrose Stabilised 35%, Nominal Refractive Index @ 20°C : 1.390322	15 ml	540220	197
Brix Standards	Sucrose Stabilised 40%, Nominal Refractive Index @ 20°C : 1.39986	15 ml	540221	197
Brix Standards	Sucrose Stabilised 45%, Nominal Refractive Index @ 20°C : 1.409777	15 ml	540222	197
Brix Standards	Sucrose Stabilised 50%, Nominal Refractive Index @ 20°C : 1.420087	15 ml	540223	197
Brix Standards	Sucrose Stabilised 60%, Nominal Refractive Index @ 20°C : 1.441928	15 ml	540224	197
Brix Standards	Sucrose Stabilised 67.5%, Nominal Refractive Index @ 20°C : 1.459290	15 ml	540225	197
Density Standard	0.6960g/ml at 15°C	100 ml	540401	274
Density Standard	0.8715g/ml at 15°C	100 ml	540402	274
Density Standard	1.0040g/ml at 15°C	100 ml	540403	274
Density Standard	1.2498g/ml at 15°C	100 ml	540404	274
Density Standard	0.6919g/ml at 20°C	100 ml	540405	274
Density Standard	0.7033g/ml at 20°C	100 ml	540406	274
Density Standard	0.7488g/ml at 20°C	100 ml	540407	274
Density Standard	0.8668g/ml at 20°C	100 ml	540408	274
Density Standard	1.0005g/ml at 20°C	100 ml	540409	274
Density Standard	1.0301g/ml at 20°C	100 ml	540410	274
Density Standard	1.0792g/ml at 20°C	100 ml	540411	274
Density Standard	1.1651g/ml at 20°C	100 ml	540412	274
Density Standard	1.2486g/ml at 20°C	100 ml	540413	274
Density Standard	1.3304g/ml at 20°C	100 ml	540414	274
Density Standard	1.5799g/ml at 20°C	100 ml	540415	274
Density Standard	1.7470g/ml at 20°C	100 ml	540416	274
Density Standard	1.9141g/ml at 20°C	100 ml	540417	274
Density Standard	0.8207g/ml at 40°C	100 ml	540418	274
Density Standard	0.9323g/ml at 40°C	100 ml	540420	274
Density Standard	1.2408g/ml at 40°C	100 ml	540421	274
Density Standard	0.9990g/ml at 60°C	100 ml	540422	274
Density Standard	0.7524g/ml at 15°C	100 ml	540451	275
Density Standard	0.7721g/ml at 15°C	100 ml	540452	275
Density Standard	0.7933g/ml at 15°C	100 ml	540453	275
Density Standard	0.8168g/ml at 15°C	100 ml	540454	275
Density Standard	0.8428g/ml at 15°C	100 ml	540455	275
Density Standard	0.8715g/ml at 15°C	100 ml	540456	275
Density Standard	0.6919g/ml at 20°C	100 ml	540457	275
Density Standard	0.7033g/ml at 20°C	100 ml	540458	275

Description	Notes	Size	Code	Page
Density Standard	0.7488g/ml at 20°C	100 ml	540459	275
Density Standard	0.7893g/ml at 20°C	100 ml	540460	275
Density Standard	0.8126g/ml at 20°C	100 ml	540461	275
Density Standard	0.8384g/ml at 20°C	100 ml	540462	275
Density Standard	0.8668g/ml at 20°C	100 ml	540463	275
Density Standard	0.9098g/ml at 20°C	100 ml	540464	275
Density Standard	0.9476g/ml at 20°C	100 ml	540465	275
Density Standard	0.9969g/ml at 25°C	100 ml	540470	275
Density Standard	0.9245g/ml at 50°C	100 ml	540471	275
Density Standard	0.9695g/ml at 60°C	100 ml	540472	275
Density Standard	0.9815g/ml at 80°C	100 ml	540473	275
Density Standard	1.0005g/ml at 20°C	100 ml	540566	275
Density Standard	1.0301g/ml at 20°C	100 ml	540567	275
Density Standard	0.8622g/ml at 25°C	100 ml	540568	275
Density Standard	0.9438g/ml at 25°C	100 ml	540569	275
Gardner Colour Standards	Colour 2	100 ml	540701	346
Gardner Colour Standards	Colour 4	100 ml	540702	346
Gardner Colour Standards	Colour 6	100 ml	540703	346
Gardner Colour Standards	Colour 8	100 ml	540704	346
Gardner Colour Standards	Colour 10	100 ml	540705	346
Gardner Colour Standards	Colour 12	100 ml	540706	346
Gardner Colour Standards	Colour 14	100 ml	540707	346
Gardner Colour Standards	Colour 16	100 ml	540708	346
Melting point standards	Benzophenone 47 to 49°C	1 g	540001	472
Melting point standards	p-Nitrotoluene 52 to 54°C	1 g	540002	472
Melting point standards	Vanillin 81 to 83°C	1 g	540003	472
Melting point standards	Benzoic Acid 121 to 123°C	1 g	540004	472
Melting point standards	Phenacetin 133 to 135°C	1 g	540005	472
Melting point standards	Salicylic Acid 158 to 160°C	1 g	540006	472
Melting point standards	Sulfanilamide 164 to 166°C	1 g	540007	472
Melting point standards	Caffeine 235 to 238°C	1 g	540008	472
Melting point standards	Carbazole 243 to 247°C	1 g	540009	472
Melting point standards	Anthraquinone 283 to 286°C	1 g	540010	472
Melting point standards	Acetanilide 113 to 116°C	1 g	540014	472
Melting point standards	Set Sulphanilamide Caffeine Vanillin	3 x 1g	540011	472
Melting point standards	Set Benzophenone (4749°C) Benzoic Acid (121-123°C) Anthraquinone (283-286°C)	3 x 1g	540012	472
Melting point standards	Set Vanillin (81-83°C) Phenacetin (134-136°C) Caffeine (235-237°C)	3 x 1g	540013	472
Osmolality Standards	100mOsm/Kg H2O	12 x 5 ml	540301	505
Osmolality Standards	1500mOsm/Kg H2O	12 x 5 ml	540302	505
Osmolality Standards	200mOsm/Kg H2O	12 x 5 ml	540303	505
Osmolality Standards	2000mOsm/Kg H2O	12 x 5 ml	540304	505
Osmolality Standards	290mOsm/Kg H2O	12 x 5 ml	540305	505
Osmolality Standards	300mOsm/Kg H2O	12 x 5 ml	540306	505
Osmolality Standards	400mOsm/Kg H2O	12 x 5 ml	540307	505
Osmolality Standards	500mOsm/Kg H2O	12 x 5 ml	540308	505
Osmolality Standards	850mOsm/Kg H2O	12 x 5 ml	540309	505
Osmolality Standards	900mOsm/Kg H2O	12 x 5 ml	540310	505
Osmolality Standards Protein Based	240mOsm/Kg H2O	12 x 5 ml	540351	505
Osmolality Standards Protein Based	280mOsm/Kg H2O	12 x 5 ml	540352	505

Description	Notes	Size	Code	Page
Osmolality Standards Protein Based	320mOsm/Kg H2O	12 x 5 ml	540353	505
Osmolality Standards Urine Based	300mOsm/Kg H2O	12 x 5 ml	540354	506
Osmolality Standards Urine Based	800mOsm/Kg H2O	12 x 5 ml	540355	506
Refractive Index standards	1.34325 at 20°C	15 ml	540101	587
Refractive Index standards	1.34782 at 20°C	15 ml	540102	587
Refractive Index standards	1.35171 at 20°C	15 ml	540103	587
Refractive Index standards	1.37233 at 20°C	15 ml	540104	587
Refractive Index standards	1.38115 at 20°C	15 ml	540105	587
Refractive Index standards	1.40978 at 20°C	15 ml	540106	587
Refractive Index standards	1.42009 at 20°C	15 ml	540107	587
Refractive Index standards	1.44193 at 20°C	15 ml	540108	587
Saybolt Colour Standards	-15	100 ml	540709	594
Saybolt Colour Standards	+0	100 ml	540710	594
Saybolt Colour Standards	+12	100 ml	540711	594
Saybolt Colour Standards	+15	100 ml	540712	594
Saybolt Colour Standards	+19	100 ml	540713	594
Saybolt Colour Standards	+25	100 ml	540714	594
Saybolt Colour Standards	+30	100 ml	540715	594
Viscosity standards	6.7cSt@20°C, 5.8cSt@25°C, 4.2cSt@37.78°C, 4cSt@40°C, 3.2cSt@50°C	500 ml	540801	727
Viscosity standards	14cSt@20°C, 12cSt@25°C, 8cSt@37.78°C, 7.5cSt@40°C, 5.8cSt@50°C	500 ml	540802	727
Viscosity standards	20cSt@20°C, 16cSt@25°C, 11cSt@37.78°C, 10cSt@40°C, 7.5cSt@50°C	500 ml	540803	727
Viscosity standards	30cSt@20°C, 24cSt@25°C, 15cSt@37.78°C, 14cSt@40°C, 10cSt@50°C	500 ml	540804	727
Viscosity standards	88cSt@20°C, 66cSt@25°C, 35cSt@37.78°C, 32cSt@40°C, 21cSt@50°C	500 ml	540805	727
Viscosity standards	160cSt@20°C, 120cSt@25°C, 60cSt@37.78°C, 54cSt@40°C, 35cSt@50°C	500 ml	540806	727
Viscosity standards	790cSt@20°C, 580cSt@25°C, 280cSt@37.78°C, 250cSt@40°C, 160cSt@50°C	500 ml	540807	727
Viscosity standards	3300cSt@20°C, 2300cSt@25°C, 1100cSt@37.78°C, 940cSt@40°C, 560cSt@50°C	500 ml	540808	727
Viscosity standards	19000cSt@20°C, 12000cSt@25°C, 4000cSt@37.78°C, 3400cSt@40°C, 1700cSt@50°C	500 ml	540809	727
Viscosity standards	28000cSt@20°C, 17000cSt@25°C, 6000cSt@37.78°C, 5100cSt@40°C, 2500cSt@50°C	500 ml	540810	727
Viscosity standards	41000cSt@20°C, 25000cSt@25°C, 8000cSt@37.78°C, 6700cSt@40°C, 3200cSt@50°C	500 ml	540811	727

In industrial sectors as well as scientific analysis and research, the growing need for specific reagents for calibration of pH-meters, pH determination and buffering needs has led CARLO ERBA Reagents to offer the following product lines:

- Buffers in ready-to-use solution: colorless & colored
- Buffers in concentrated solution - Normex vial: colorless & colored
- pH indicators in solution
- pH indicator papers

## Buffers in colorless solution, ready-to-use

These solutions are traceable to N.I.S.T and precisely standardized at 20°C, which makes them ideal for solving calibration problems with other solutions and preventing errors due to various factors such as the kind of salt or water used.

Description	Notes	Size	Code	Page
Ammonia buffer solution pH 10		5 l	PS0194/22	151
Ammonia buffer solution pH 10		5 l	PS0194/95	151
Ammonia buffer solution pH 10		10 l	PS0194/96	151
Boric buffer solution		5 l	PS0226/29	195
Boric buffer solution		10 l	PS0226/41	195
Buffer acetate pH 4.5		5 l	PS0784/95	203
Buffer pH 1		500 ml	486211	203
Buffer pH 1.68		500 ml	486751	204
Buffer pH 2		500 ml	486231	204
Buffer pH 3		500 ml	486251	204
Buffer pH 3		1 l	486252	204
Buffer pH 3.56		500 ml	486741	205
Buffer pH 4		500 ml	486271	205
Buffer pH 4		1 l	486273	205
Buffer pH 4		5 l	486274	205
Buffer pH 4		10 l	486276	205
Buffer pH 4.62		500 ml	486841	206
Buffer pH 5		500 ml	486311	206
Buffer pH 6		500 ml	486331	206
Buffer pH 6.88		500 ml	486871	207
Buffer pH 7		500 ml	486451	207
Buffer pH 7		1 l	486453	207
Buffer pH 7		5 l	486454	207
Buffer pH 7		10 l	486456	207
Buffer pH 7		25 l	486455	207
Buffer pH 7.20 Weise		500 ml	486411	208
Buffer pH 8		500 ml	486541	208
Buffer pH 8		1 l	486542	208
Buffer pH 9		500 ml	486591	209
Buffer pH 9		1 l	486593	209
Buffer pH 9		5 l	486594	209
Buffer pH 9.22		500 ml	486881	209
Buffer pH 10		1 l	PS0200/15	210
Buffer pH 10		5 l	PS0200/95	210
Buffer pH 10		500 ml	486611	210
Buffer pH 10		1 l	486613	210
Buffer pH 10		5 l	486614	210
Buffer pH 10		10 l	486615	210
Buffer pH 11		500 ml	486771	211
Buffer pH 11		1 l	486772	211



Description	Notes	Size	Code	Page
Buffer pH 12		500 ml	486691	211
Buffer pH 13		500 ml	486701	211
Phosphate buffer pH 6.8		10 l	524952	529
Phosphate buffer pH 7.4		5 l	524965	529
Phosphate buffer pH 7.4		5 l	PS0740/95	529

## Buffers in colored solution, ready-to-use

To enable immediate identification of the buffer, the following colored solutions, traceable to N.I.S.T, are available.

Description	Notes	Size	Code	Page
Buffer pH 4	Color : Red	500 ml	486761	205
Buffer pH 4	Color : Red	1 l	486762	205
Buffer pH 7	Color : Green	500 ml	486791	207
Buffer pH 7	Color : Green	1 l	486792	207
Buffer pH 9	Color : Blue	500 ml	PS0427/19	209
Buffer pH 9	Color : Blue	1 l	PS0427/15	209
Buffer pH 10.06	Color : Blue	500 ml	486811	210
Buffer pH 10.06	Color : Blue	1 l	486812	210

## Buffers in colorless solution, NORMEX

Buffers usually consist of a diluted solution of the buffering system.

Given their usually low concentration, long-term storage of these solutions may lead to the development of mold or other inconveniences. To avoid these problems, concentrated buffer solutions packaged in polythene NORMEX vials are available.

With the aid of a 500ml volumetric flask, a funnel and a glass stirrer, each Normex buffer package can be used to prepare 500ml of buffer solution at the desired pH with a maximum error of  $\pm 0.05$  pH units. Detailed instructions for use are printed on the package of each individual Normex buffer. The correct preparation procedure provides for the use of boiled distilled water with a recommended preparation temperature of 20°C.

The characteristics of this line are:

- vial specifically designed by CARLO ERBA Reagents to meet the user's needs
- quick and simple preparation of 500ml of solution at a known pH

Description	Notes	Size	Code	Page
Buffer pH 1	To dilute to 500 ml		486221	203
Buffer pH 2	To dilute to 500 ml		486241	204
Buffer pH 3	To dilute to 500 ml		486261	204
Buffer pH 4	To dilute to 500 ml		486281	205
Buffer pH 5	To dilute to 500 ml		486301	206
Buffer pH 6	To dilute to 500 ml		486321	206
Buffer pH 6.8	To dilute to 500 ml		486401	207
Buffer pH 7	To dilute to 500 ml		486421	207
Buffer pH 7.2	To dilute to 500 ml		486441	208
Buffer pH 7.4	To dilute to 500 ml		486461	208
Buffer pH 8	To dilute to 500 ml		486531	209
Buffer pH 9	To dilute to 500 ml		486571	209
Buffer pH 10	To dilute to 500 ml		486601	210
Buffer pH 11	To dilute to 500 ml		486631	211
Buffer pH 12	To dilute to 500 ml		486621	211
Buffer pH 13	To dilute to 500 ml		486641	211

## Buffers in colored solution, NORMEX

To enable immediate identification of the buffer, the following colored concentrated buffer solutions packaged in polythene NORMEX vials are available.

The characteristics of this line are:

- vial specifically designed by CARLO ERBA Reagents to meet the user's needs
- quick and simple preparation of 500ml of solution at a known pH

Description	Notes	Size	Code	Page
Buffer pH 4	Color : red - To dilute to 500 mL		486291	205
Buffer pH 7	Color : yellow - To dilute to 500 mL		486431	208
Buffer pH 10.06	Color : blue - To dilute to 500 mL		486581	210

## pH indicators in solution

The direct method, i.e., placing the indicator in the solution being analyzed, is the most efficient and thus the most widely adopted method for acid-base titration.

Since the indicator competes with the species being titrated, its use in significant quantities may alter the result of the titration; therefore it is critically important to choose the most appropriate indicator for the type of analysis being performed.

For the determination of pH values in aqueous solutions, universal indicators in solution are available for measurements in a variety of pH ranges. These products are supplied complete with a color scale and detailed instructions for use. The sensitivity of these solutions is higher than that of pH indicator papers.

Description	Notes	Size	Code	Page
Alizarin saturated solution in ethanol		250 ml	E415932	136
Alkali Blue 6B solution 2% in ethanol		250 ml	E428541	137
Bromocresol Green 0.04% hydroalcoholic solution		250 ml	E491255	199
Bromocresol purple solution 0.4% in ethanol		250 ml	E470045	200
Bromophenol blue solution 0.4% in ethanol		250 ml	E428665	201
Bromophenol blue solution 0.02%		100 ml	428691	201
Bromothymol blue 0.4% in ethanol		250 ml	E428715	202
Bromothymol blue 0.02%		100 ml	428731	202
o-Cresol Red solution 0.2% in ethanol		250 ml	E476805	267
Crystal violet solution 0.5% in anhydrous acetic acid		500 ml	E491551	268
Indicator universal pH 0-5 hydroalcoholic solution		25 ml	E455661	393
Indicator universal pH 0-5 hydroalcoholic solution		500 ml	E455662	393
Indicator universal pH 1-11 hydroalcoholic solution		25 ml	E455702	393
Indicator universal pH 1-11 hydroalcoholic solution		500 ml	E455706	393
Indicator universal pH 1-11 water solution		25 ml	E455711	394
Indicator universal pH 1-11 water solution		500 ml	E455712	394
Indicator universal pH 9-13 hydroalcoholic solution		25 ml	E455641	394
Indicator universal pH 9-13 hydroalcoholic solution		500 ml	E455642	394
Methylene blue solution 1%		500 ml	E429011	465
Methyl Orange solution 0.1%		500 ml	E423562	467
Methyl red solution water/ethanol 0.2%		250 ml	E476915	469
Methyl red solution 0.1% in ethanol		250 ml	E476921	469
Phenol Red solution 0.2% in ethanol		250 ml	E476845	525
Phenolphthalein solution 1% in ethanol		250 ml	451191	526
Phenolphthalein solution 1% in ethanol		1 l	451192	526
Thymol blue 0.4% in ethanol		250 ml	E429235	700
Thymolphthalein 0.1% hydroalcoholic solution		250 ml	E487755	701
o-Tolidine solution 0.1%		1 l	488461	707

## pH paper, litmus and indicator paper in rolls for special uses

Indicator papers represent a convenient and particularly simple instrument for measuring pH.

Indicator papers are actually filter paper impregnated with indicator solutions.

A wide variety of indicator papers are available, allowing the user to select the product most suited to the type of sample being analyzed and the degree of certainty required on the final result.

This is the most basic type of paper and does not require a color scale for pH determination.

This type of test paper provides a relative indication and is useful in determining whether a solution is acid, neutral or basic.

Description	Notes	Size	Code	Page
Congo red paper	Congo red paper, Color change : red --> Blue, Change pH 5.0-->3.0	1 roll	435220000	259
Lead (II) acetate paper	Paper lead acetate, Color change : White --> Brown-Black	1 roll	435180000	427
Litmus paper	Blue litmus paper, Color change : blue --> red, change pH 8.0 - 5.0	1 roll	435260000	435
Litmus paper	Neutral litmus paper, Color change : red <-- purple --> Blue, Change pH 5.0 - 8.0	1 roll	435300000	435
Litmus paper	Red litmus paper, Color change : red --> blue, Change pH 5.0 - 8.0	1 roll	435340000	435
Phenolphthalein paper	Paper phenolphthalein, Color change : white --> red, change pH 8.3-->10.0	1 roll	435060000	526
Potassium iodide starch paper	Paper starch iodide, Color change : White --> Blue-purple	1 roll	434980000	560

## pH paper, high-sensitivity indicator paper in rolls

High-sensitivity test papers cover small pH ranges with a detection scan of between 0.2 - 0.5 units, while the attached color scale provides the reference colors.

These test papers are suitable for measuring the pH of unbuffered or weakly buffered solutions.

Description	Notes	Size	Code	Page
Indicator papers	Monochromatic scale. pH range 0.5 - 5.5. Sensitivity 0.5 pH	1 roll	435421000	392
Indicator papers	Monochromatic scale. pH range 4.0 - 7.0. Sensitivity 0.3 pH	1 roll	435431000	392
Indicator papers	Monochromatic scale. pH range 6.4 - 8.0. Sensitivity 0.2 pH	1 roll	435441000	392
Indicator papers	Monochromatic scale. pH range 7.2 - 9.7. Sensitivity 0.3 pH	1 roll	435451000	392
Indicator papers	Monochromatic scale. pH range 8.0 - 10.0. Sensitivity 0.2/0.3 pH	1 roll	435461000	392
Indicator papers	Monochromatic scale. pH range 9.0 - 13.0. Sensitivity 0.5 pH	1 roll	435471000	392
Indicator papers	Monochromatic scale. pH range 5.5 - 9.0. Sensitivity 0.5 pH	1 roll	435511000	392
Indicator papers	Monochromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH	1 roll	435140000	392
Indicator papers	Monochromatic scale, pH range 1.0 - 14.0, Sensitivity 1,0/2,0 pH	1 roll	435150000	392
Indicator papers	Monochromatic scale, pH range 3.8 - 5.8, Sensitivity 0.2/0.3 pH	1 roll	435161000	392
Indicator papers	Monochromatic scale, pH range 5.4 - 7.0, Sensitivity 0.2/0.3 pH	1 roll	435171000	392

## pH paper, in roll three-colored

Three-color test papers have three parallel sections with different colors, formed by three different mixtures of indicators separated by a fine hydrophobic strip to prevent any color migration. The three indicator sections ensure high-precision results that are remarkably easy to read. The reference color chart provides three different color indications for each pH unit.

Description	Notes	Size	Code	Page
Indicator papers	Trichromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH	1 roll	435131000	392

## pH paper strips, with built-in color scale

These indicator papers are unique in that they have the color scale provided directly on each strip, usually divided into 8 color notches with the corresponding pH indicated for each.

This allows the user to perform quick and precise pH measurements without the need for an external color guide. These test papers are also suitable for colored solutions or suspensions, since the color of the solution to be analyzed acts in the same manner on the indicator scale as it does on the result of the solution being tested.

An invisible hydrophobic strip placed just above the last color notch on the color scale forms a barrier that prevents the test liquid, which may be corrosive, toxic or otherwise dangerous, from coming into contact with the user's fingers through capillary action.

Description	Notes	Size	Code	Page
Indicator papers	pH range 1.0 - 2.8. Sensitivity 0.2/0.3	100 stripes	435493000	393
Indicator papers	pH range 1.8 - 3.8. Sensitivity 0.2/0.3	100 stripes	435494000	393
Indicator papers	pH range 2.8 - 4.6. Sensitivity 0.2/0.3	100 stripes	435495000	393
Indicator papers	pH range 3.8 - 5.5. Sensitivity 0.2/0.3	100 stripes	435496000	393
Indicator papers	pH range 5.2 - 6.8. Sensitivity 0.2/0.3	100 stripes	435497000	393
Indicator papers	pH range 6.0 - 8.1. Sensitivity 0.2/0.3	100 stripes	435498000	393
Indicator papers	pH range 7.2 - 8.8. Sensitivity 0.2/0.3	100 stripes	435501000	393
Indicator papers	pH range 8.0 - 9.7. Sensitivity 0.2/0.3	100 stripes	435502000	393
Indicator papers	pH range 1.0 - 12.0. Sensitivity 1.0	200 stripes	435491000	393

### pH paper strips, color-fixed

These indicator papers are indelible. This property depends on the chemical bond between the indicator and the cellulose fiber, and it allows the test papers to be used even in highly alkaline solutions.

The strip length allows a wide operating margin, thus preventing contact between the operator's fingers and the solution being analyzed.

Description	Notes	Size	Code	Page
Indicator papers	pH range 0.0 - 14.0, Sensitivity 1.0	100 stripes	435121000	393
Indicator papers	pH range 0.0 - 6.0. Sensitivity 0.5	100 stripes	435642000	393
Indicator papers	pH range 2.0 - 9.0. Sensitivity 0.5	100 stripes	435643000	393
Indicator papers	pH range 4.5 - 10.0. Sensitivity 0.5	100 stripes	435644000	393
Indicator papers	pH range 7.0 - 14.0. Sensitivity 0.3/0.4	100 stripes	435645000	393
Indicator papers	pH range 0.3 - 2.3. Sensitivity 0.3	100 stripes	435646000	393

Volumetric titration is a standard analytical technique used specifically for quantitative determination of analytes in solution. Despite the numerous sophisticated instrumental innovations resulting from recent technological developments, the classical volumetric analysis technique has maintained its importance in the area of analytical chemistry.

CARLO ERBA Reagents offers different lines of volumetric solutions to meet the needs of a wide variety of users:

- Ready-to-use solutions
- Concentrated solutions in Normex vial

## Volumetric solutions, traceable to NIST, ready-to-use

For routine analyses, our line of ready-to-use volumetric solutions is ideal for quick and convenient use with guaranteed quality. CARLO ERBA Reagents offers a wide range with exact title of the batch written on the label and certificate of analysis, traceability to S.R.M. from N.I.S.T., a  $\pm 0.1\%$  precision.

These solutions are available in both polythene or glass bottles, with ISO 45 bottle mouths which are adaptable to automatic titrators, as well as 10 and 5 liters Kubidos® packages supplied with tap and cap, ideal for excellent storage and dosing of the product.

Kubidos® consists of a cubic box containing a HDPE, a tap and cap ensuring easy flow of the required volume.

With the low volume of product in contact with air, the risks of carbonation of alkaline solutions and microbial contamination are limited.

Description	Notes	Size	Code	Page
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)		1 l	405511000	325
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)		5 l	405513000	325
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)		10 l	405512000	325
Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)		1 l	405501000	325
Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)		5 l	405502000	325
Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)		1 l	405442000	326
Hydrochloric acid 2 mol/l (2N)		1 l	404067000	378
Hydrochloric acid 2 mol/l (2N)		5 l	404062000	378
Hydrochloric acid 2 mol/l (2N)		10 l	404061000	378
Hydrochloric acid 1 mol/l (1N)		1 l	404097000	379
Hydrochloric acid 1 mol/l (1N)		5 l	404092000	379
Hydrochloric acid 1 mol/l (1N)		10 l	404091000	379
Hydrochloric acid 0.5 mol/l (0.5N)		1 l	404147000	380
Hydrochloric acid 0.5 mol/l (0.5N)		5 l	404142000	380
Hydrochloric acid 0.5 mol/l (0.5N)		10 l	404141000	380
Hydrochloric acid 0.1 mol/l (0.1N)		1 l	404197000	381
Hydrochloric acid 0.1 mol/l (0.1N)		5 l	404192000	381
Hydrochloric acid 0.1 mol/l (0.1N)		10 l	404191000	381
Hydrochloric acid 0.01 mol/l (0.01N)		1 l	404267	383
Iodine 0.5 mol/l (1N)		500 ml	456135000	397
Iodine 0.5 mol/l (1N)		1 l	456137000	397
Iodine 0.05 mol/l (0.1N)		500 ml	456036000	398
Iodine 0.05 mol/l (0.1N)		1 l	456037000	398
Nitric acid 2 mol/l (2N)		5 l	408185000	496
Nitric acid 1 mol/l (1N)		500 ml	408176000	496
Nitric acid 1 mol/l (1N)		1 l	408171000	496
Nitric acid 0.1 mol/l (0.1N)		500 ml	408206000	496
Perchloric acid 0.1 mol/l (0.1N) in acetic acid		500 ml	409136	516
Perchloric acid 0.1 mol/l (0.1N) in acetic acid		1 l	409131	516
Potassium hydroxide 1 mol/l (1N)		1 l	472287000	554
Potassium hydroxide 1 mol/l (1N)		5 l	472282000	554
Potassium hydroxide 1 mol/l (1N)		10 l	472281000	554

Description	Notes	Size	Code	Page
Potassium hydroxide 0.5 mol/l (0.5N)		1 l	472337000	554
Potassium hydroxide 0.5 mol/l (0.5N)		5 l	472332000	554
Potassium hydroxide 0.5 mol/l (0.5N)		10 l	472331000	554
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol		1 l	472021000	555
Potassium hydroxide 0.5 mol/l (0.5N) in ethanol		1 l	472022000	555
Potassium hydroxide 0.5 mol/l (0.5N) in methanol		500 ml	472366000	555
Potassium hydroxide 0.5 mol/l (0.5N) in methanol		1 l	472364000	555
Potassium hydroxide 0.5 mol/l (0.5N) in methanol		5 l	472367000	555
Potassium hydroxide 0.25 mol/l (0.25N)		1 l	472427000	556
Potassium hydroxide 0.25 mol/l (0.25N)		5 l	472422000	556
Potassium hydroxide 0.25 mol/l (0.25N)		10 l	472421000	556
Potassium hydroxide 0.1 mol/l (0.1N)		1 l	472457000	557
Potassium hydroxide 0.1 mol/l (0.1N)		5 l	472452000	557
Potassium hydroxide 0.1 mol/l (0.1N)		10 l	472451000	557
Potassium hydroxide 0.1 mol/l (0.1N) in methanol		500 ml	472486000	557
Potassium hydroxide 0.1 mol/l (0.1N) in methanol		1 l	472484000	557
Potassium hydroxide 0.1 mol/l (0.1N) in ethanol		1 l	472041000	557
Potassium hydroxide 0.1 mol/l (0.1N) in ethanol		1 l	472042000	557
Potassium permanganate 0.2 mol/l (1N)		1 l	473514000	563
Potassium permanganate 0.02 mol/l (0.1N)		1 l	473567000	563
Potassium permanganate 0.02 mol/l (0.1N)		5 l	473565000	563
Silver nitrate 1 mol/l (1N)		500 ml	424036000	605
Silver nitrate 1 mol/l (1N)		1 l	424035000	605
Silver nitrate 0.5 mol/l (0.5N)		1 l	424051000	605
Silver nitrate 0.1 mol/l (0.1N)		1 l	424067000	605
Silver nitrate 0.1 mol/l (0.1N)		5 l	424062000	605
Silver nitrate 0.1 mol/l (0.1N)		5 l	424063000	605
Silver nitrate 0.1 mol/l (0.1N)		10 l	424061000	605
Silver nitrate 0.05 mol/l (0.05N)		1 l	424101000	606
Sodium hydroxide 2 mol/l (2N)		500 ml	480686000	633
Sodium hydroxide 2 mol/l (2N)		1 l	480687000	633
Sodium hydroxide 2 mol/l (2N)		5 l	480682000	633
Sodium hydroxide 2 mol/l (2N)		10 l	480681000	633
Sodium hydroxide 2 mol/l (2N)		20 l	480684000	633
Sodium hydroxide 1 mol/l (1N)		1 l	480717000	634
Sodium hydroxide 1 mol/l (1N)		5 l	480711000	634
Sodium hydroxide 1 mol/l (1N)		5 l	480714000	634
Sodium hydroxide 1 mol/l (1N)		10 l	480713000	634
Sodium hydroxide 0.5 mol/l (N/2)		1 l	480777000	634
Sodium hydroxide 0.5 mol/l (N/2)		5 l	480771000	634
Sodium hydroxide 0.5 mol/l (N/2)		10 l	480772000	634
Sodium hydroxide 0.5 mol/l (N/2)		10 l	480773000	634
Sodium hydroxide 0.25 mol/l (N/4)		1 l	480867000	635
Sodium hydroxide 0.25 mol/l (N/4)		5 l	480861000	635
Sodium hydroxide 0.25 mol/l (N/4)		10 l	480862000	635
Sodium hydroxide 0.1 mol/l (N/10)		1 l	480897000	636
Sodium hydroxide 0.1 mol/l (N/10)		5 l	480891000	636
Sodium hydroxide 0.1 mol/l (N/10)		10 l	480892000	636
Sodium hydroxide 0.1 mol/l (N/10)		10 l	480893000	636
Sodium thiosulfate 0.1 mol/l (0.1N)		1 l	484077000	657
Sodium thiosulfate 0.1 mol/l (0.1N)		5 l	484072000	657

Description	Notes	Size	Code	Page
Sodium thiosulfate 0.1 mol/l (0.1N)		10 l	484071000	657
Sulfuric acid 1 mol/l (2N)		1 l	410547000	681
Sulfuric acid 1 mol/l (2N)		10 l	410548000	681
Sulfuric acid 0.5 mol/l (1N)		1 l	410577000	681
Sulfuric acid 0.5 mol/l (1N)		5 l	410572000	681
Sulfuric acid 0.5 mol/l (1N)		5 l	410575000	681
Sulfuric acid 0.5 mol/l (1N)		10 l	410571000	681
Sulfuric acid 0.25 mol/l (0.5N)		1 l	410667000	682
Sulfuric acid 0.25 mol/l (0.5N)		5 l	410663000	682
Sulfuric acid 0.25 mol/l (0.5N)		10 l	410662000	682
Sulfuric acid 0.05 mol/l (0.1N)		1 l	410717000	683
Sulfuric acid 0.05 mol/l (0.1N)		5 l	410712000	683
Sulfuric acid 0.05 mol/l (0.1N)		10 l	410711000	683

## NORMEX, concentrated volumetric solutions

CARLO ERBA Reagents also offers a series of concentrated volumetric solutions packaged in convenient NORMEX vials. These are ideal for users who would like to prepare solutions immediately before the analysis in a rapid and precise manner. The contents of each vial, brought to a volume of 1000ml with distilled water, allows the user to prepare volumetric solutions at a known concentration with a guaranteed titration factor equal to  $\pm 0.005$ .

Description	Notes	Size	Code	Page
Acetic acid 0.1 mol/l (0.1N)	Volume : 55 ml		401561	124
Ammonium thiocyanate 0.1 mol/l (0.1N)	Volume : 55 ml		421001	165
Ammonium thiocyanate 0.01 mol/l (0.01N)	Volume : 55 ml		421061	166
Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	Volume : 165 ml		405421	325
Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	Volume : 55 ml		405431	326
Hydrochloric acid 1 mol/l (1N)	Volume : 165 ml		404111	379
Hydrochloric acid 0.5 mol/l (0.5N)	Volume : 165 ml		404161	380
Hydrochloric acid 0.1 mol/l (0.1N)	Volume : 55 ml		404211	381
Hydrochloric acid 0.01 mol/l (0.01N)	Volume : 55 ml		404251	383
Iodine 0.05 mol/l (0.1N)	Volume : 60 ml		456051	398
Iodine 0.005 mol/l (0.01N)	Volume : 60 ml		456121	398
Nitric acid 0.1 mol/l (0.1N)	Volume : 55 ml		408231	496
Oxalic acid 0.05 mol/l (0.1N)	Volume : 165 ml		408871	507
Oxalic acid 0.005 mol/l (0.01N)	Volume : 55 ml		408901	507
Potassium bromate 0.0167 mol/l (0.1N)	Volume : 60 ml		470681	538
Potassium dichromate 0.0167 mol/l (0.1 N)	Volume : 60 ml		470501	546
Potassium hydroxide 1 mol/l (1N)	Volume : 165 ml		472311	554
Potassium hydroxide 0.5 mol/l (0.5N)	Volume : 55 ml		472391	555
Potassium hydroxide 0.1 mol/l (0.1N)	Volume : 55 ml		472511	557
Potassium iodate 0.0167 mol/l (0.1N)	Volume : 60 ml		472601	558
Potassium iodate 0.00167 mol/l (0.01N)	Volume : 60 ml		472631	558
Potassium permanganate 0.02 mol/l (0.1N)	Volume : 65 ml		473591	563
Potassium permanganate 0.002 mol/l (0.01N)	Volume : 60 ml		473661	564
Silver nitrate 0.1 mol/l (0.1N)	Volume : 60 ml		424081	605
Silver nitrate 0.01 mol/l (N/100)	Volume : 60 ml		424161	606
Sodium arsenite 0.05 mol/l (0.1N)	Volume : 60 ml		402381	613
Sodium carbonate 0.05 mol/l (0.1N)	Volume : 55 ml		479211	618
Sodium chloride 0.1 mol/l (0,1N)	Volume : 55 ml		479781	620
Sodium hydroxide 1 mol/l (1N)	Volume : 165 ml		480741	634
Sodium hydroxide 0.5 mol/l (N/2)	Volume : 55 ml		480801	634

Description	Notes	Size	Code	Page
Sodium hydroxide 0.1 mol/l (N/10)	Volume : 55 ml		480921	636
Sodium hydroxide 0.01 mol/l (N/100)	Volume : 55 ml		481001	637
Sodium thiosulfate 0.1 mol/l (0.1N)	Volume : 55 ml		484121	657
Sodium thiosulfate 0.01 mol/l (0.01N)	Volume : 55 ml		484161	658
Sulfuric acid 0.5 mol/l (1N)	Volume : 165 ml		410591	681
Sulfuric acid 0.25 mol/l (0.5N)	Volume : 55 ml		410681	682
Sulfuric acid 0.05 mol/l (0.1N)	Volume : 55 ml		410731	684
Sulfuric acid 0.005 mol/l (0.01N)	Volume : 55 ml		410791	685





Rigorous control of all the products in the food chain (milk, cereals, meats, fruits and vegetables) has recently become even more important to prevent problems associated with the adulteration of foodstuffs as well as to guarantee that all the necessary elements for a healthy diet are present in the food we eat every day.

## Reagents for food analysis

In order to offer its customers ready-to-use reagents prepared in compliance with the specifications set forth by international standards and regulations for food analysis, CARLO ERBA Reagents has developed a wide range of products dedicated to the agriculture and food sector.

Description	Notes	Size	Code	Page
ADF Solution		2.5 l	526625	134
ADF Solution		10 l	526623	134
Amidoschwarz 10B solution		5 l	502050	144
Amidoschwarz 10B solution		10 l	502051	144
Boric Acid 20g/l		5 l	PS0703/22	194
Boric acid 20 g/l with indicator		5 l	PS0562/22	194
Boric acid 4%		5 l	502002	194
Boric acid 4 % with indicator		5 l	502601	194
Boric acid 1% with indicator		5 l	502611	195
Boric acid 1% with indicator		10 l	502612	195
Carrez reagent potassium salt		1 l	502711	235
Carrez reagent zinc salt		1 l	502701	235
Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28)		10 l	526011	326
Fehling's A reagent		500 ml	449926	331
Fehling's A reagent		1 l	449927	331
Fehling's A reagent		10 l	PS0492/41	331
Fehling's B reagent		500 ml	E449936	331
Fehling's B reagent		1 l	E449937	331
Fehling's B reagent		10 l	PS0493/41	331
Hanus's reagent		1 l	E454872	356
Hydrochloric acid 1.128% (m/v)		1 l	502761	376
Hydrochloric acid 6 mol/l (6N)		1 l	502831	376
Hydrochloric acid 6 mol/l (6N)		18 l	502832	376
Hydrochloric acid 4 mol/l (4N)		1 l	502010	377
Hydrochloric acid 3 mol/l (3N)		1 l	502621	378
Hydrochloric acid 3 mol/l (3N)		2.5 l	502622	378
Hydrochloric acid 3 mol/l (3N)		25 l	502011	378
Hydrochloric acid 0.714 mol/l (N/1.4)		10 l	526531	379
Hydrochloric acid 0.2 mol/l (0.2N)		1 l	502631	380
Hydrochloric acid 0.0714 mol/l (N/14)		10 l	526533	382
Hydrogen peroxide solution 30%		5 l	502044	388
Isoamyl alcohol	With indicator	500 ml	E413903	408
Isoamyl alcohol	Without indicator	1 l	413892	408
Mixture C.H.M.		2.5 l	524411	472
Mixture C.H.M.		5 l	524412	472
Mix Diethyl ether/Ethanol 70/30 (w/w)		1 l	463251	473
Mix Diethyl ether/Ethanol 70/30 (w/w)		2.5 l	463255	473
Mix Diethyl ether / Ethanol absolute 50/50 (w/w)		5 l	529311	473
Mix Diethyl Ether / Ethanol 50/50 (v/v)		5 l	529381	473
Mixture for checking solderings		5 l	502671	474
NDF Solution		2.5 l	526920	482
NDF Solution		25 l	526921	482

Description	Notes	Size	Code	Page
NDF Plus solution		25 l	526941	483
Perchloric acid 60%		1 l	502046	516
Potassium chromate 5% solution		1 l	502681	543
Potassium hydroxide 0.46 mol/l (0.46N)		5 l	502212	556
Potassium hydroxide 0.23 mol/l (0.23N)		5 l	502092	556
Reagent for lipolysis		2.5 l	524910	585
Reagent for lipolysis		5 l	524912	585
Reagent TAN		2.5 l	PS0327/21	585
Reagent TAN		5 l	PS0327/29	585
Reagent TAN		10 l	PS0327/39	585
Reagent TBN		2.5 l	PS0423/21	586
Reagent TBN		5 l	PS0423/29	586
Reagent TBN		10 l	PS0423/39	586
Sand of Fontainebleau		1 kg	502064	593
Sand of Fontainebleau		5 kg	502063	593
Sand of Fontainebleau		25 kg	502062	593
Selenic mixture		250 g	463421	596
Selenic mixture		1 kg	463422	596
Sodium hydroxide solution 40%		5 l	502721	627
Sodium hydroxide solution 35-37%		5 l	502112	628
Sodium hydroxide solution 35-37%		25 l	502113	628
Sodium hydroxide solution 32%		25 kg	524510	628
Sodium hydroxide solution 30%		5 l	502741	629
Sodium hydroxide solution 30%		1 l	502731	629
Sodium hydroxide solution 10% w/v		5 l	508615	630
Sodium hydroxide 5 mol/l (5N)		1 l	526513	632
Sodium hydroxide 5 mol/l (5N)		5 l	526512	632
Sodium hydroxide 0.7 mol/l (N/1.4)		10 l	526511	634
Sodium hydroxide 0.357 mol/l (0.357N)		1 l	480837000	635
Sodium hydroxide 0.2 mol/l (N/5)		500 ml	502782	635
Sodium hydroxide 0.2 mol/l (N/5)		10 l	502781000	635
Sulfuric acid 98%		1 l	410421	675
Sulfuric acid 98%		2.5 l	502641	675
Sulfuric acid 90%		1 l	410391	678
Sulfuric acid 90%		2.5 l	410394	678
Sulfuric acid 90%		50 kg	E410395	678
Sulfuric acid 72%		2.5 l	502771	679
Sulfuric acid 0.26 mol/l (0.52N)		5 l	502202	682
Sulfuric acid 0.13 mol/l (0.26N)		5 l	502651	683
Sulfuric acid 0.1 mol/l (0.2N)		1 l	502100000	683
Sulfuric acid d=1,820		5 l	502020	686
Wijs' reagent		250 ml	E491901	731
Wijs' reagent		1 l	E491902	731

## Kjeldahl, Nitrogen content

For the determination of the nitrogen content using the Kjeldahl method, the following mineralization catalysts are available:

Description	Notes	Size	Code	Page
Kjeldahl antifoam	Composition: Sodium sulfate 0.97 g/Silicone antifoam 0.03 g	1000 x 1 g	502811	419
Kjeldahl catalyst according to Wieninger	Composition : Sodium sulfate 4.88 g/ Copper sulfate 0.07 g/ Selenium 0.05 g	1000 x 5 g	502821	419

Description	Notes	Size	Code	Page
Kjeldahl catalyst for water analysis	Composition : Potassium sulfate 5.0 g/ Selenium 5 mg	1000 x 5 g	502121	420
Kjeldahl catalyst for water analysis	Composition : Potassium sulfate 5.0 g/ Selenium 50 mg	1000 x 5 g	502122	420
Kjeldahl catalyst without selenium and titanium	Composition : Potassium sulfate 3.50 g/Copper sulfate 0.40 g	1000 x 3.9 g	502791	420
Kjeldahl catalyst without selenium and titanium	Composition : Potassium sulfate 5.0 g/Copper sulfate 0.50 g	1000 x 5 g	502792	420
Kjeldahl selenium catalyst	Composition : Potassium sulfate 4.63 g/Copper sulfate 0.28 g/Selenium 0.09g	1000 x 5 g	502120	420
Kjeldahl titanium catalyst	Composition : Potassium sulfate 3.5 g/Copper sulfate 0.105 g/Titane dioxide 0.105 g	1000 x 3.5 g	502123	420
Kjeldahl titanium catalyst	Composition : Potassium sulfate 5.00 g/Copper sulfate 0.15 g/Titane dioxide 0.15 g	1000 x 5 g	502801	420
Sodium hydroxide solution 32%		1 l	480561	628
Sodium hydroxide solution 32%		2.5 l	480566	628
Sodium hydroxide solution 32%		5 l	526521	628
Sodium hydroxide solution 32%		10 l	480564	628
Sodium hydroxide solution 32%		25 kg	480562	628
Sodium hydroxide solution 32%		30 kg	480563	628

CARLO ERBA Reagents line of products for the electronics industry, is characterized by high chemical purity. As they are subjected to meticulous filtration processes, these solvents guarantee a particulate content less than 250 parts per mm, for particles with diameters larger than 0.5 micron.

## RSE, Special Solvents & Reagents

RSE (Special Reagents for Electronics) for all applications which do not require control of particle content.

Description	Notes	Size	Code	Page
Acetic acid glacial		2.5 l	401462	119
Acetone		1 l	401051	127
Acetone		2.5 l	401058	127
Acetone		5 l	401054	127
Acetone		5 l	401055	127
Acetone		22 kg	401052	127
Ammonia solution 30%		1 l	420071	147
Ammonia solution 30%		2 l	420073	147
Ammonia solution 30%		5 l	420077	147
Ammonia solution 30%		25 kg	420075	147
Ammonia solution 25%		5 l	420085	148
Ammonia solution 25%		25 kg	420084	148
Dichloromethane		1 l	463162	284
Dichloromethane		2.5 l	463161	284
Ethanol absolute anhydrous	Only for Italian market	1 l	414587	312
Ethanol absolute anhydrous		1 l	4145872	312
Ethanol absolute anhydrous	Only for Italian market	2.5 l	414583	312
Ethanol absolute anhydrous		2.5 l	4145832	312
Ethyl acetate		1 l	448307	321
Ethyl acetate		2.5 l	448308	321
Ethyl acetate		5 l	448306	321
Glycerol (30°Bé)		1 l	453771	349
Glycerol (30°Bé)		2.5 l	453772	349
Hydrochloric acid 37%		1 l	403977	370
Hydrochloric acid 37%		2.5 l	403971	370
Hydrofluoric acid 50%		1 l	405737	384
Hydrogen peroxide solution 30%		1 l	412161	387
Hydrogen peroxide solution 30%		5 l	412162	387
Hydrogen peroxide solution 30%		25 kg	412163	387
Isopar G		2.5 l	526151	412
Methanol		1 l	414917	457
Methanol		2.5 l	414914	457
Nitric acid 69.5%		1 l	408097	491
Nitric acid 69.5%		2.5 l	408098	491
Nitric acid 65%		1 l	408101	494
Nitric acid 65%		2.5 l	408102	494
Nitric acid 65%		260 kg	408103	494
Nitric acid 18%		1 l	408191	495
Orthophosphoric acid 85%		2.5 l	406021	503
Potassium hydroxide, pellets		1 kg	472097	552
Potassium hydroxide solution 45%		5 l	472103	553
Propan-2-ol		1 l	415237	575
Propan-2-ol		2.5 l	415235	575

Description	Notes	Size	Code	Page
Propan-2-ol		5 l	415231	575
Propan-2-ol		5 l	415238	575
Propan-2-ol		27 l	415236	575
Propan-2-ol		200 l	415233	575
Sodium hydroxide, pellets		1 kg	480527	626
Sodium hydroxide, pellets		5 kg	480522	626
Sodium hydroxide, pellets		25 kg	480525	626
Sulfuric acid 96%		1 l	410374	676
Sulfuric acid 96%		2.5 l	410371	676
Xylene, mix of isomers		1 l	492358	732
Xylene, mix of isomers		2.5 l	492359	732

## MOS (Metal Oxide Semiconductor) Solvents & Reagents

MOS (Metal Oxide Semiconductor) for MOS circuit production processes.

Description	Notes	Size	Code	Page
Acetone		1 l	401042	127
Acetone		2.5 l	401041	127
Ammonia solution 25%		1 l	420051	149
Ethanol absolute anhydrous		2.5 l	414692	312
Hydrochloric acid 37%		2.5 l	403941	370
Hydrofluoric acid 50%		1 l	405653	384
Hydrogen peroxide solution 30%		1 l	412081	388
Methanol		1 l	414822	457
Methanol		2.5 l	414821	457
Nitric acid 69.5%		2.5 l	408152	492
Propan-2-ol		1 l	415162	575
Propan-2-ol		2.5 l	415161	575
Sulfuric acid 96%		2.5 l	410381	676

## VLSI (Very Large Scale Integration) Solvents & Reagents

VLSI (Very Large Scale Integration) for the production of microcircuits using VLSI technology.

Description	Notes	Size	Code	Page
Acetone		2.5 l	527650	127
Acetone		5 l	527655	127
Ethanol absolute anhydrous		2.5 l	527680	311
Hydrochloric acid 37%		2.5 l	527600	370
Hydrogen peroxide solution 30%		1 l	527621	387
Hydrogen peroxide solution 30%		2.5 l	527620	387
Methanol		2.5 l	527640	457
Nitric acid 69.5%		2.5 l	527670	491
Orthophosphoric acid 85%		2.5 l	527591	503
Propan-2-ol		2.5 l	527690	575
Propan-2-ol		30 l	527691	575
Sulfuric acid 96%		2.5 l	527630	675



A wide range of products for the sample preparation in histology, hematology and cytodiagnosis.

## Fixing media

CARLO ERBA Reagents offers a wide range of fixatives, in concentrated or ready-to-use diluted form.

Description	Notes	Size	Code	Page
Fixative AFA liquid	60 ml jars filled at 30 ml. Box of 500	30 ml	508840	332
Fixative AFA liquid		1 l	526267	332
Fixative AFA liquid		5 l	526263001	332
Fixative AFA liquid		25 l	526321	332
Fixative Bouin Duboscq Brazil liquid		1 l	526271	332
Fixative Bouin Duboscq Brazil liquid		5 l	526262	332
Fixative Bouin Hollande liquid		1 l	526268	333
Fixative Bouin Hollande liquid		5 l	526269	333
Fixative Bouin liquid	40 ml jars filled at 20 ml. Box of 500	20 ml	508835	333
Fixative Bouin liquid		1 l	526270	333
Fixative Bouin liquid		5 l	526261	333
Fixative Bouin liquid		1 l	429751	333
Fixative Davidson liquid	60 ml jars filled at 30 ml. Box of 500	30 ml	508881	333
Fixative Davidson liquid	180 ml jars filled at 100 ml. Box of 100	100 ml	508883	333
Fixative Davidson liquid		5 l	526277	333
Fixative Davidson liquid	500 ml jars filled at 300 ml. Box of 32	300 ml	508882	333
Fixative FIXALL-HIS liquid		5 l	526274	334
Fixative liquid without acetic acid		10 l	526264	334
Formaldehyde 37% w/v neutralized		1 l	415686	336
Formaldehyde 37% w/v neutralized		5 l	415682	336
Formaldehyde 37% w/v neutralized		10 kg	415683	336
Formaldehyde 37% w/v neutralized		30 kg	415684	336
Formaldehyde 37% w/v neutralized		55 kg	415685	336
Formaldehyde 37% w/v		1 l	415661	337
Formaldehyde 37% w/v		2.5 l	415666	337
Formaldehyde 37% w/v		5 l	415667	337
Formaldehyde 10% v/v according to Lillie	60 ml jars filled at 30 ml. Box of 500. Colored pink.	30 ml	508850	338
Formaldehyde 10% v/v according to Lillie	140 ml jars filled at 80 ml. Box of 150. Colored pink	80 ml	508853	338
Formaldehyde 10% v/v according to Lillie	180 ml jars filled at 100 ml. Box of 100. Colored pink	100 ml	508851	338
Formaldehyde 10% v/v according to Lillie		5 l	526912	338
Formaldehyde 10% v/v according to Lillie		25 l	526911	338
Formaldehyde 5% w/v buffered at pH 6.9		5 l	415674	338
Formaldehyde 5% w/v buffered at pH 6.9		10 l	415672	338
Formaldehyde 4% w/v with sodium chloride		1 l	526934	339
Formaldehyde 4% w/v buffered at pH 6.9		1 l	415634	339
Formaldehyde 4% w/v buffered at pH 6.9		5 l	415631	339
Formaldehyde 4% w/v buffered at pH 6.9		20 l	415636	339
Formaldehyde 4% w/v buffered at pH 6.9	40 ml jars filled at 20 ml. Box of 500	20 ml	508859	339
Formaldehyde 4% w/v buffered at pH 6.9	60 ml jars filled at 30 ml. Box of 500	30 ml	508861	339
Formaldehyde 4% w/v buffered at pH 6.9	180 ml jars filled at 120 ml. Box of 100	120 ml	508862	339
Formaldehyde 4% w/v buffered at pH 6.9	500 ml jars filled at 300 ml. Box of 32	300 ml	508863	339
Formaldehyde 4% w/v buffered at pH 6.9		500 ml	524920	339
Formaldehyde 4% w/v buffered at pH 6.9	1 l jar filled at 800 ml	800 ml	526937	339

Description	Notes	Size	Code	Page
Formaldehyde 4% w/v buffered at pH 6.9		1 l	415694	339
Formaldehyde 4% w/v buffered at pH 6.9	5 l bucket filled at 2.5 l	2.5 l	526931	339
Formaldehyde 4% w/v buffered at pH 6.9		5 l	415691	339
Formaldehyde 4% w/v buffered at pH 6.9		5 l	415695	339
Formaldehyde 4% w/v buffered at pH 6.9		5 l	526936	339
Formaldehyde 4% w/v buffered at pH 6.9		10 l	415693	339
Formaldehyde 4% w/v buffered at pH 6.9		10 l	526933	339
Formaldehyde 4% w/v buffered at pH 6.9		20 l	415696	339
Formaldehyde 4% w/v buffered at pH 6.9		30 kg	415692	339
Formaldehyde 4% w/v buffered at pH 6.9		200 l	415697	339
Formaldehyde acetic	60 ml jars filled at 30 ml. Box of 500	30 ml	508871	340
Formaldehyde acetic	60 ml jars filled at 40 ml. Box of 500	40 ml	508872	340
Formaldehyde acetic	180 ml jars filled at 65 ml. Box of 100	65 ml	508874	340
Formaldehyde acetic	180 ml jars filled at 120 ml. Box of 160	120 ml	508873	340
Formaldehyde acetic		1 l	526231	340
Formaldehyde acetic		5 l	526273	340
Paraformaldehyde		1 kg	387507	511

## Solvents for dehydration, de-waxing and diaphanization

Dehydration is obtained by bathing the tissue in an alcoholic series of increasing concentration.

Other solvents can be used instead of alcohols, as long as they mix with water, xylene and paraffins.

Solvent Plus, a mixture of Isoparaffins is widely and efficiently used for diaphanization and deparaffinization as a substitute of xylene.

Histolemon is a natural, non-toxic solvent for histology.

It is used as both a diaphanizing agent and a deparaffinizing agent, and it can replace xylene, toluene and all other solvents used for the same purposes. It is a product of natural origin, citrus-fruit scented, with the following characteristics: totally non-toxic, scarcely volatile, mixable with alcohols, compatible with all kinds of paraffins. It completely solves the problem of toxicity in the workplace.

Description	Notes	Size	Code	Page
Ethanol absolute anhydrous	Only for Italian market	1 l	414601	312
Ethanol absolute anhydrous	Only for Italian market	1 l	414607	312
Ethanol absolute anhydrous		1 l	4146012	312
Ethanol absolute anhydrous		1 l	4146072	312
Ethanol absolute anhydrous	Only for Italian market	2.5 l	414605	312
Ethanol absolute anhydrous	Only for Italian market	2.5 l	414608	312
Ethanol absolute anhydrous		2.5 l	4146052	312
Ethanol absolute anhydrous		2.5 l	4146082	312
Ethanol absolute anhydrous		5 l	414603	312
Ethanol absolute anhydrous		5 l	414606	312
Ethanol absolute anhydrous		10 l	414604	312
Ethanol 96°	Only for Italian market	1 l	414634	314
Ethanol 96°	Only for Italian market	1 l	414637	314
Ethanol 96°		1 l	4146342	314
Ethanol 96°		1 l	4146372	314
Ethanol 96°	Only for Italian market	2.5 l	414631	314
Ethanol 96°	Only for Italian market	2.5 l	414632	314
Ethanol 96°		2.5 l	4146312	314
Ethanol 96°		2.5 l	4146322	314
Ethanol 96°		5 l	414635	314
Ethanol 96°		10 l	414638	314
Ethanol absolute denaturated		1 l	528031	317
Ethanol absolute denaturated		5 l	528033	317
Ethanol absolute denaturated		5 l	528034	317
Ethanol absolute denaturated		10 l	528036	317

Description	Notes	Size	Code	Page
Ethanol 95° denaturated		1 l	528181	317
Ethanol 95° denaturated		5 l	528185	317
Ethanol 95° denaturated		10 l	528182	317
Histolemon		1 l	454911	367
Histolemon		2.5 l	454912	367
Histolemon		5 l	454915	367
Methanol		1 l	414814	458
Methanol		1 l	414819	458
Methanol		2.5 l	414815	458
Methanol		2.5 l	414816	458
Methanol		5 l	524102	458
Methanol		5 l	524103	458
Methanol		10 l	414818	458
Propan-1-ol		1 l	415104	573
Propan-1-ol		2.5 l	415102	573
Propan-1-ol		10 l	415108	573
Propan-2-ol		1 l	415154	576
Propan-2-ol		2.5 l	415156	576
Propan-2-ol		2.5 l	415158	576
Propan-2-ol		5 l	415173	576
Propan-2-ol		5 l	529174	576
Propan-2-ol		10 l	415153	576
Solvent Plus		2.5 l	446187	659
Solvent Plus		5 l	446181	659
Tetrahydrofuran		1 l	487308	694
Tetrahydrofuran		2.5 l	487303	694
Tetrahydrofuran		5 l	487305	694
Tetrahydrofuran		5 l	487307	694
Toluene		1 l	488551	709
Toluene		2.5 l	488555	709
Toluene		5 l	488552	709
Water		5 l	307582	729
Water		10 l	307586	729
Xylene, mix of isomers		1 l	492301	732
Xylene, mix of isomers		2.5 l	492306	732
Xylene, mix of isomers		5 l	492305	732

## Embedding media

CARLO ERBA Reagents paraffins, in addition to possessing the typical properties required of an inclusion medium, offer the advantages of being highly purified and filtered, with a melting point between 56 and 58°C.

In order to optimize the infiltration times and guarantee better preparation of the sample, paraffin is available with and without DMSO additive.

Description	Notes	Size	Code	Page
Paraffin 56-58°C - Erbaplast (without DMSO)		4 x 2 kg	467958	510
Paraffin 56°C-58°C - Erbaplast (with DMSO)		4 x 2 kg	467938	510

## Reagents and staining solutions

Ready-to-use staining solutions produce bright and well-contrasted colors.

Ideal for easy microscope readings, they allow valid results to be obtained with shorter staining times and greater certainty.

Solutions for Papanicolaou staining are especially suited for laboratory use in cytological diagnostics, thanks to their quality and reproducibility characteristics: bright and contrasted colors, high staining capacity, short staining time, long solution life, reproducibility of the colors, and perfect long-term preservation of the stained sections.



Panoptic staining achieved with Giemsa and May Grünwald reagents provides a greater body of information with a single staining. Indeed, blood smear staining allows the diagnosis of all pathologies related to malformations of red and white blood cells as well as distribution imbalances of the different kinds of white blood cells.

Description	Notes	Size	Code	Page
Alcian Blue 8GS 1%		250 ml	428551	135
Amman's lactophenol solution		100 ml	457531	146
Benedict's reagent		1 l	E425742	184
Carbolated Methylene Blue hydroalcoholic solution		100 ml	428991	234
Carbolated Toluidine Blue hydroalcoholic solution		100 ml	429291	234
Crystal violet oxalate for Gram-Hucker Kit		250 ml	491561	268
Decalcifying agent		1 l	441221	273
Differentiator for kit Gram-Hucker		250 ml	444131	292
Ehrlich's reagent		500 ml	E446302	307
Eosin Y 1% solution aqueous		1 l	446644	308
Eosin Y 0.5% solution alcoholic		1 l	446664	308
Esbach's reagent		1 l	446981	310
Folin-Ciocalteu's reagent		500 ml	E463562	336
Gentian violet carbolated solution	Dye for microscopy (bacteriology) according to GRAM	250 ml	E491651	346
Gentian violet carbolated solution	Dye for microscopy (bacteriology) according to NICOLLE	250 ml	E491661	346
Giemsa's reagent		100 ml	453614	347
Giemsa's reagent		6 x 100 ml	E453612	347
Giemsa's reagent		500 ml	453616	347
Giemsa's reagent		6 x 500 ml	E453613	347
Giemsa's reagent		2.5 l	453611	347
Giemsa's reagent		4 x 2.5 l	E453615	347
Gram - Hucker Kit		4 x 250 ml	454441	353
Haemalum solution according to Carazzi		250 ml	434351	355
Haemalum solution according to Carazzi		6 x 250 ml	E434352	355
Haemalum solution according to Mayer		1 l	446377	355
Haemalum solution according to Mayer		6 x 1 l	446372	355
Hematoxyline solution according to Mayer		100 ml	460511	356
Hematoxyline solution according to Mayer		6 x 100 ml	460512	356
Hematoxyline solution according to Mayer		1 l	460513	356
Hematoxyline solution according to Mayer		6 x 1 l	460515	356
Lactophenol blue solution		100 ml	428901	422
Lugol concentrated solution		1 l	458741	435
Lugol solution for Gram-Hucker kit		250 ml	458751	435
Lugol's Reagent Iodine-Iodide Solution		250 ml	458762	435
Lugol's Reagent Iodine-Iodide Solution		6 x 250 ml	E458761	435
Lugol's Reagent Iodine-Iodide Solution		1 l	458763	435
Lugol's Reagent Iodine-Iodide Solution		6 x 1 l	E458764	435
May Grünwald reagent		100 ml	460584	450
May Grünwald reagent		6 x 100 ml	E460582	450
May Grünwald reagent		500 ml	460586	450
May Grünwald reagent		6 x 500 ml	E460583	450
May Grünwald reagent		2.5 l	460581	450
May Grünwald reagent		4 x 2.5 l	E460585	450
Mayer's reagent		500 ml	460502	450
Methylene blue saturated solution		250 ml	E429031	464

Description	Notes	Size	Code	Page
Papanicolaou Haematoxylin solution according to Harris		500 ml	446462	509
Papanicolaou Haematoxylin solution according to Harris		6 x 500 ml	446464	509
Papanicolaou Haematoxylin solution according to Harris		1 l	446461	509
Papanicolaou Haematoxylin solution according to Harris		6 x 1 l	446465	509
Papanicolaou Haematoxylin solution according to Harris		2.5 l	446463	509
Papanicolaou Haematoxylin solution according to Harris		4 x 2.5 l	446466	509
Papanicolaou solution EA 50		500 ml	467782	509
Papanicolaou solution EA 50		6 x 500 ml	E467784	509
Papanicolaou solution EA 50		1 l	467781	509
Papanicolaou solution EA 50		6 x 1 l	E467785	509
Papanicolaou solution EA 50		2.5 l	467783	509
Papanicolaou solution EA 50		4 x 2.5 l	E467786	509
Papanicolaou solution OG 6		500 ml	467792	510
Papanicolaou solution OG 6		6 x 500 ml	E467794	510
Papanicolaou solution OG 6		1 l	467791	510
Papanicolaou solution OG 6		6 x 1 l	E467795	510
Papanicolaou solution OG 6		2.5 l	467793	510
Papanicolaou solution OG 6		4 x 2.5 l	E467796	510
Safranine T hydroalcoholic solution for Gram-Hucker Kit		250 ml	477241	592
Schiff's reagent for PAS coloration		500 ml	477591	595
Schiff's reagent for PAS coloration		6 x 500 ml	477592	595
Tauber reagent		500 ml	490422	689
Turk's reagent		500 ml	E490451	723
Wright's stain solution in methanol		100 ml	492011	731
Ziehl-Neelsen's reagent		250 ml	493101	737
Ziehl-Neelsen's reagent		1 l	493102	737

## Dyes

To aid identification of the finest details of cellular structures, very pure products must be used. For this purpose the CARLO ERBA Reagents dyes in powder, in addition to possessing such characteristics, are also classified and certified through the combined use of TLC and UV-Visible spectrophotometry.

Description	Notes	Size	Code	Page
Acridine orange		25 g	423461	134
Alcian blue 8GX		25 g	428561	136
Alkali blue 6B		25 g	428532	137
Aniline blue soluble in water		25 g	428582	167
Azure II		5 g	424721	176
Azure II eosin		5 g	424731	177
Bismarck brown R		25 g	431252	190
Biuret 97%		25 g	428432	193
Brillant cresyl blue		10 g	428811	196
Brillant cresyl blue		25 g	428812	196
Brilliant green		25 g	491152	196
Casein		50 g	435963	235
Congo red		25 g	476762	259
Congo red		100 g	476764	259

Description	Notes	Size	Code	Page
Coomassie brilliant blue R 250		25 g	428642	259
Eosin B		25 g	446602	308
Eosin Y		25 g	446632	308
Eosin Y		100 g	446634	308
Erythrosin extra B		100 g	446971	310
Fast green FCF		25 g	491391	331
Fuchsin acid		25 g	452812	342
Fuchsin acid		100 g	452814	342
Fuchsin basic		25 g	452842	343
Fuchsin basic		100 g	452844	343
Gentian violet		50 g	388701	346
Gold(III) chloride trihydrate		1 g	467007	353
Hematoxylin		25 g	446472	356
Hematoxylin		100 g	446473	356
Hematoxylin		1 kg	446475	356
Light green		10 g	491371	430
Light green		25 g	491372	430
Malachite green		25 g	491303	444
Malachite green		100 g	491304	444
Methyl blue		25 g	428932	463
Methyl green		10 g	491351	465
Methyl green		25 g	491352	465
Neutral red		10 g	476951	485
Nigrosine		25 g	464852	489
Nigrosine		50 g	464853	489
Nuclear fast red		10 g	477011	499
Nuclear fast red		25 g	477012	499
Orange G		25 g	423432	502
Orange II		10 g	423341	502
Orcein		5 g	466858	502
Orcein		25 g	466859	502
Phloxin B		10 g	452051	528
Phloxin B		25 g	452052	528
Ponceau red BS		10 g	476941	535
Ponceau red S		5 g	476981	535
Ponceau red S		25 g	476982	535
Rosolic acid		25 g	409702	590
Safranine T		25 g	477232	592
Sudan black B		25 g	464241	671
Sudan III		25 g	485902	671
Sudan yellow		10 g	453581	672
Tartrazine		50 g	486903	689
Tetrazolium blue		1 g	429187	696
Toluidine blue		25 g	429282	711
Victoria blue		10 g	429381	727
Victoria blue		25 g	429382	727

## Mounting media

Mounting media of natural or synthetic origin in various solvents, depending on the specific needs of the users, with all the typical characteristics required of common mounting media.

Description	Notes	Size	Code	Page
Acquovitrex-Erba		6 x 100 ml	412194	170
Canada balsam		100 g	321553	233
Canada balsam		250 g	321554	233
Eukitt		100 ml	554194	330
Eukitt		250 ml	554193	330
Eukitt		500 ml	554192	330
Gelatine		500 g	453226	346
Oil of cedar wood		100 ml	466753	501
Oil of cedar wood		1 l	466757	501

## Immersion media

An especially useful range of products for optical microscopy.

Description	Notes	Size	Code	Page
Immersion oil		100 ml	466782	392
Immersion oil		1 l	466783	392



## Anhydrous solvents

In analytical and synthetic chemistry many operations must take place in an anhydrous environment in order to prevent alterations, the occurrence of side reactions and a reduced yield. For this purpose, high-quality solvents with minimum water content must be used. The CARLO ERBA Reagents anhydrous solvents eliminate the time-consuming need for anhydrification of the solvents while ensuring results that are certain and reliable over time. These solvents are the result of specific production processes, optimized and controlled to obtain the highest degree of purity and minimum water content. The packaging materials used are ideal for preserving product quality, and the products are available in various sizes, in septum bottles or glass bottles, so as to meet every type of usage need.

Description	Notes	Size	Code	Page
Acetone		200 ml	P0051010	126
Acetone		1 l	P0051016	126
Acetonitrile		200 ml	P0061010	131
Acetonitrile	Water content < 50 ppm	200 ml	P00610S10	131
Acetonitrile		1 l	P0061016	131
Acetonitrile	Water content < 50 ppm	1 l	P00610S16	131
Acetonitrile		2.5 l	P0061021	131
Butanol-1		200 ml	P0171010	212
Butanol-1		1 l	P0171016	212
tert-Butanol		1 l	P0191016	213
n-Butyl acetate		1 l	P0011016	215
n-Butyl acetate		2.5 l	P0011021	215
tert-Butylmethylether		1 l	P0921016	217
Chloroform		200 ml	P02410A10	247
Chloroform		1 l	P02410A16	247
Chloroform		2.5 l	P02410A21	247
Chloroform		200 ml	P02410E10	247
Chloroform		1 l	P02410E16	247
Chloroform		2.5 l	P02410E21	247
Cyclohexane		200 ml	P0251010	270
Cyclohexane		1 l	P0251016	270
1,2-Dichloroethane		200 ml	P0281010	281
1,2-Dichloroethane		1 l	P0281016	281
1,2-Dichloroethane		2.5 l	P0281021	281
Dichloromethane		200 ml	P02910A10	283
Dichloromethane		1 l	P02910A16	283
Dichloromethane		2.5 l	P02910A21	283
Dichloromethane		200 ml	P02910E10	283
Dichloromethane		1 l	P02910E16	283
Dichloromethane		2.5 l	P02910E21	283
Diethyl ether		200 ml	P0441010	290
Diethyl ether		1 l	P0441008	290
Diethyl ether		1 l	P0441016	290
Diethyl ether		2.5 l	P0441021	290
Diisopropylether		1 l	P0431016	292
n,n-Dimethylformamide		200 ml	P0341010	296
n,n-Dimethylformamide		1 l	P0341016	296
n,n-Dimethylformamide		2.5 l	P0341021	296
1,4-Dioxane		200 ml	P0361010	301
1,4-Dioxane		1 l	P0361016	301
1,4-Dioxane		2.5 l	P0361021	301

Description	Notes	Size	Code	Page
Ethanol absolute anhydrous		200 ml	P013A1010	311
Ethanol absolute anhydrous		1 l	P013A1016	311
Ethanol absolute anhydrous		2.5 l	P013A1021	311
Ethyl acetate		200 ml	P0021010	321
Ethyl acetate		1 l	P0021016	321
Ethyl acetate		2.5 l	P0021021	321
Ethyl methyl ketone		1 l	P0201016	329
Formamide		200 ml	P6151010	340
n-Heptane 99%		1 l	P0501016	357
n-Heptane 99%		2.5 l	P0501021	357
n-Hexane		1 l	P0521016	363
Isobutanol		1 l	P0531016	409
Isopentane		1 l	P0651016	412
Methanol		200 ml	P0931010	457
Methanol		1 l	414981	457
Methanol		1 l	P0931016	457
Methanol		2.5 l	P0931021	457
Methylcyclohexane		1 l	P0581016	464
Methyl isobutyl ketone		1 l	P0601016	466
n-Methyl-2-pyrrolidone		200 ml	P0871010	468
Propan-1-ol		1 l	P0941016	573
Propan-1-ol		2.5 l	P0941021	573
Propan-1-ol		25 l	P0941049	573
Propan-2-ol		200 ml	P0951010	574
Propan-2-ol		1 l	P0951016	574
Pyridine		200 ml	P0671010	580
Pyridine	Water content < 100 ppm	200 ml	P06710S10	580
Pyridine		1 l	P0671016	580
Pyridine		2.5 l	P0671021	580
Sulfolane		1 l	P932SP16	674
Tetrahydrofuran		200 ml	P0701010	694
Tetrahydrofuran		1 l	P0701016	694
Tetrahydrofuran		2.5 l	P0701021	694
Toluene		200 ml	P0711010	708
Toluene		1 l	P0711016	708
Toluene		2.5 l	P0711021	708

## Anhydrous solvents, with molecular sieves

To improve prevention of contamination from external humidity, these solvents are supplied with molecular sieves.

Description	Notes	Size	Code	Page
Acetonitrile	On molecular sieves 3A	200 ml	P00610T10	131
Chloroform	On molecular sieves	2.5 l	P02410AT21	247
Dichloromethane	On molecular sieves 4A	200 ml	P02910AT10	283
Dichloromethane	On molecular sieves 4A	1 l	P02910AT16	283
Diethyl ether	On molecular sieves 4A, Water content < 20ppm	200 ml	P04410T10	290
Diethyl ether	On molecular sieves 4A, Water content < 20ppm	1 l	P04410T16	290
n,n-Dimethylformamide	On molecular sieves 4A.	200 ml	P03410T10	296
n,n-Dimethylformamide	On molecular sieves 4A	1 l	P03410T16	296

Description	Notes	Size	Code	Page
Ethyl acetate	On molecular sieves 4A, Water content < 20ppm	2.5 l	P00210T21	321
n-Pentane	On molecular sieves	1 l	P0641016	513
Tetrahydrofuran	On molecular sieves 4A	200 ml	P07010T10	694
Tetrahydrofuran	On molecular sieves 4A	1 l	P07010T16	694
Toluene	On molecular sieves 4A	200 ml	P07110T10	708

## NMR solvents

The choice of deuterated solvents is very important in NMR spectroscopy.

These solvents contribute to shielding the substance they dissolve, as well as making a significant contribution to expanding the electric reaction field generated by the solvent as a result of the polarization produced by the molecules in the solute.

To meet the varied needs of this sophisticated analytical technique, CARLO ERBA Reagents offers a wide range of deuterated solvents, characterized by high production standards resulting from the use of spectroscopically pure raw materials and accurate analyses and controls in line with our long tradition of quality.

Our solvents are available in various degrees of isotopic purity and a vast assortment of packages, with an attention to detail that complements the overall reliability and safety guaranteed by the products.

Description	Notes	Size	Code	Page
Acetic acid-d4		5 ml	P5013A	125
Acetic acid-d4		10 x 0.75 ml	P5039	125
Acetone-d6		10 x 0.75 ml	P5049	129
Acetone-d6		10 ml	P5044A	129
Acetone-d6		5 x 10 ml	P5044S	129
Acetone-d6		25 ml	P5045	129
Acetone-d6		100 ml	P5046	129
Acetone-d6		10 x 0.6 ml	P5060	129
Acetonitrile-d3		2 x 0.6 ml	P5070	132
Acetonitrile-d3		10 x 0.75 ml	P5079	132
Acetonitrile-d3		6 ml	P5073A	132
Benzene-d6		10 x 0.75 ml	P5089	186
Benzene-d6		25 ml	P5085	186
Benzene-d6		100 ml	P5086	186
Benzene-d6		10 x 0.6 ml	P5100	186
Chloroform-d		10 x 0.75 ml	P5119	248
Chloroform-d		25 ml	P5115	248
Chloroform-d		100 ml	P5116	248
Chloroform-d		500 ml	P5117	248
Chloroform-d		1 l	P5118	248
Chloroform-d		100 ml	P5325	249
Chloroform-d		10 x 0.6 ml	P5130	249
Chloroform-d		10 x 0.75 ml	P5139	249
Chloroform-d		25 ml	P5135	249
Chloroform-d		100 ml	P5505	249
Chloroform-d + 0,03% TMS		100 ml	P5006	249
Cyclohexane-d12		2 x 0.5 ml	P5151A	271
Deuterium oxide-d		10 x 0.6 ml	P5160	275
Deuterium oxide-d		10 x 0.75 ml	P5169	275
Deuterium oxide-d		5 x 10 ml	P5164	275
Deuterium oxide-d		25 ml	P5165	275
Deuterium oxide-d		25 ml	P5165S	275
Deuterium oxide-d		100 ml	P5166	275
Deuterium oxide-d		1 l	P5168	275
Deuterium oxide-d		10 x 0.75 ml	P5179	275

Description	Notes	Size	Code	Page
Deuterium oxide-d		25 ml	P5175	275
Deuterium oxide-d + 0.01% DMSO		10 x 0.6 ml	P5170D	276
Deuterium oxide-d + 0.01% DMSO		2 ml	P5173D	276
Deuterium oxide-d + 0.5% TSP d4		10 x 0.5 ml	P5161T	276
Deuterium oxide-d + 0.03% TSP d4		10 x 0.6 ml	P5160T	276
1,2-Dichlorobenzene-d4		5 ml	P5533A	280
Dichloromethane-d2		10 x 0.6 ml	P5330	286
Dichloromethane-d2		10 x 0.75 ml	P5339	286
Dichloromethane-d2		10 ml	P5334A	286
Dichloromethane-d2		25 ml	P5335	286
n,n-Dimethylformamide-d7		2 x 0.75 ml	P5189A	297
n,n-Dimethylformamide-d7		5 ml	P5183A	297
Dimethylsulphoxide-d6		10 x 0.6 ml	P5200	299
Dimethylsulphoxide-d6		10 x 0.75 ml	P5209	299
Dimethylsulphoxide-d6		10 ml	P5204A	299
Dimethylsulphoxide-d6		5 x 10 ml	P5204S	299
Dimethylsulphoxide-d6		25 ml	P5205	299
Dimethylsulphoxide-d6		100 ml	P5206	299
Dimethylsulphoxide-d6		10 x 0.6 ml	P5220	299
Dimethylsulphoxide-d6		10 x 0.75 ml	P5229	299
Dimethylsulphoxide-d6 + 0.03% TMS		10 x 0.6 ml	P5602	300
Dimethylsulphoxide-d6 + 0.03% TMS		25 ml	P5605	300
Dimethylsulphoxide-d6 + 0.03% TMS		100 ml	P5606	300
Dimethylsulphoxide-d6 + 0.03% TMS		10 x 0.75 ml	P5541	300
Dimethylsulphoxide-d6 + 0.03% TMS		25 ml	P5545	300
Ethanol-d6 anhydrous		2 x 1 ml	P5262A	319
Formic acid-d		5 ml	P5733	342
Hexane-d14		1 ml	P5472A	365
Hydrochloric acid-d 1 mol/l		25 ml	P5695	383
Hydrochloric acid-d 20%		25 ml	P5685	383
Methanol-d4		10 x 0.6 ml	P5280	460
Methanol-d4		10 x 0.75 ml	P5289	460
Methanol-d4		5 ml	P5283A	460
Methanol-d4		5 x 10 ml	P5284	460
Methanol-d4		5 x 10 ml	P5284S	460
Methanol-d4		25 ml	P5285	460
Methanol-d4		10 x 0.6 ml	P5310	460
Methanol-d4		10 x 0.75 ml	P5319	460
Methanol-d4 + 0.03% TMS		10 x 0.6 ml	P5140	460
Methanol-d3		10 x 0.75 ml	P5309	460
Methanol-d1		25 ml	P5275	460
Molecular sieves 3 A deuterated		5 g	P557X	475
Orthophosphoric acid-d3 85% in D2O		25 ml	P5055	504
Pyridine-d5		2 x 0.75 ml	P5369A	581
Pyridine-d5		10 ml	P5364A	581
Pyridine-d5		2 x 0.6 ml	P5370	581
Sodium hydroxide-d 1 30%		25 ml	P5675	637
Sodium hydroxide-d 1 mol/l		25 ml	P5665	637
Tetrachloroethane-d2		25 ml	P5435	692
Tetrahydrofuran-d8		2 x 0.6 ml	P5380	695
Tetrahydrofuran-d8		25 ml	P5385	695



Description	Notes	Size	Code	Page
Tetramethylsilane		25 ml	P5455S	696
Toluene-d8		2 x 0.75 ml	P5399A	710
Toluene-d8		5 ml	P5393A	710
Toluene-d8		25 ml	P5395	710
Trifluoroacetic acid-d		2 x 0.75 ml	P5419A	716
Trifluoroacetic acid-d		5 ml	P5413A	716
Trifluoroethanol-d2		2 x 0.75 ml	P5449A	717

## Solvents for Peptides Synthesis

CARLO ERBA Reagents propose a specific range of most common used of solvents for peptide and/or DNA synthesis. These solvents are tested specifically to guarantee the absence of amines according to described tests.

Description	Notes	Size	Code	Page
Acetonitrile		200 ml	P0063510	131
Acetonitrile		1 l	P0063516	131
Acetonitrile		2.5 l	P0063521	131
n,n-Dimethylformamide		1 l	P0343516	296
n,n-Dimethylformamide		2.5 l	P0343521	296
n,n-Dimethylformamide		5 l	P0343522	296
n,n-Dimethylformamide		10 l	P0343541	296
n,n-Dimethylformamide		25 l	P0343549	296
n,n-Dimethylformamide		25 l	P0343550	296
n,n-Dimethylformamide		200 l	P0343567	296
n-Methyl-2-pyrrolidone		1 l	P0873516	468
n-Methyl-2-pyrrolidone		2.5 l	P0873521	468
n-Methyl-2-pyrrolidone		10 l	P0873541	468
n-Methyl-2-pyrrolidone		25 l	P0873549	468
n-Methyl-2-pyrrolidone		200 l	P0873566	468
Piperidine		1 l	P0663516	534
Piperidine		2.5 l	P0663521	534
Pyridine		1 l	P0673516	580
Pyridine		2.5 l	P0673521	580
Trifluoroacetic acid		100 ml	P0082103	715
Trifluoroacetic acid		2.5 l	P0082147	715



Growing awareness of the environmental consequences of chemical products and the processes by which they are produced has led to the development of the concept of "Sustainable (Green) Chemistry" in the United States during the early nineties. The definition given by its founder, Paul T. Anastas, is the following:

"Green Chemistry is the utilization of a set of principles that reduces or eliminates the use and generation of hazardous substances in the design, manufacture and application of chemical products."

It is based on 12 principles, which take into consideration the environmental, economic and safety aspects of chemistry.

## Green solvents

In the interest of Green Chemistry, CARLO ERBA Reagents offers the following Green Solvents:

Description	Notes	Size	Code	Page
Cyclopentyl methyl ether		1 l	P8010216	272
Cyclopentyl methyl ether		5 l	P8010229	272
n,n'-Dimethylpropylene uree		500 ml	P8020218	298
n,n'-Dimethylpropylene uree		1 l	P8020216	298
n,n'-Dimethylpropylene uree		5 l	P8020229	298
n,n'-Dimethylpropylene uree		25 l	P8020248	298
1,3-Dioxolane		1 l	P8030216	302
1,3-Dioxolane		5 l	P8030222	302
2-Methyltetrahydrofuran		1 l	P9960216	470
2-Methyltetrahydrofuran		2.5 l	P9960221	470
2-Methyltetrahydrofuran		5 l	P9960229	470
2-Methyltetrahydrofuran		25 l	P9960248	470
2-Methyltetrahydrofuran		200 l	P9960268	470
4-Methyltetrahydropyran		500 ml	P9990218	471
4-Methyltetrahydropyran		1 l	P9990216	471
4-Methyltetrahydropyran		2.5 l	P9990221	471
1,3-Propanediol		1 l	P8040216	577
1,3-Propanediol		5 l	P8040222	577
1,3-Propanediol		190 l	P8040268	577



## KARL FISCHER TITRATION

ERBAqua® is the new CARLO ERBA Reagents brand, for its complete range of pyridine-free reagents for the volumetric and coulometric Karl Fischer determination of water.

The main features of this range are: more safety due to py-free and one component reagents non-hazardous, fast and stable endpoints and long term titre stability.

### ERBAqua® One component volumetric reagents

In one-component volumetric Karl Fischer Titration, the titrant contains all the reagents required by the reaction: iodine, sulfur dioxide, base and an alcohol.

Available in two different titer strengths, 5 mg/ml and 2 mg/ml, they are suitable for routine analysis, and thanks to their methanol-free formulation, they can be used also if the sample contains aldehydes and ketones.

We also provide specific working media to dissolve the sample:

570031, for sample containing oils and fats

570041, for sample containing aldehydes and ketones. It is especially suitable for high molecular weight products and non polar constituents mixture

570241 and 570251 are the one component volumetric Karl Fischer reagents, non-hazardous.

Description	Notes	Size	Code	Page
Karl Fischer reagent 1 component 5 mg H <sub>2</sub> O/ml		1 l	570011	416
Karl Fischer reagent 1 component 5 mg H <sub>2</sub> O/ml	New formulation. Not regulated for transport.	1 l	570241	416
Karl Fischer reagent 1 component 2 mg H <sub>2</sub> O/ml		1 l	570021	416
Karl Fischer reagent 1 component 2 mg H <sub>2</sub> O/ml	New formulation. Not regulated for transport.	1 l	570251	416
Karl Fischer solvent for aldehydes and ketones one component		1 l	570041	417
Karl Fischer solvent for oils one component		1 l	570031	417

### ERBAqua® Two components volumetric reagents

For users who do frequent Karl Fischer analysis and need a higher degree of accuracy than one-component volumetric titration can provide, we recommend the two components range.

They give more accuracy in the results and longer shelf life because the reagents required by the Karl Fischer reaction are separated between the titrant (iodine) and the working medium (sulfur dioxide and base), but this implies that they must be coupled used.

For general purposes, we offer two different titer strengths, 5 mg/ml and 2 mg/ml.

In order to avoid side reactions in presence of aldehydes and ketones in the sample, we recommend to perform the analysis using the dedicated formulations: 570081 as titrant to be used with 570091 as working medium.

For oils or other non-polar compounds, 570101 is the suitable working medium.

In case of need for an extra buffering capacity of 5 mmole of acid/ml, 570121 is the suitable working medium.

Description	Notes	Size	Code	Page
Karl Fischer buffer solution		500 ml	570111	415
Karl Fischer titrant 2 component 5 mg H <sub>2</sub> O/ml		1 l	570081	417
Karl Fischer solvent 2 component		1 l	570071	417
Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free		1 l	570091	417
Karl Fischer solvent for oils 2 component		1 l	570101	418
Karl Fischer titrant 2 component 5 mg H <sub>2</sub> O/ml - non hygroscopic		1 l	570051	418
Karl Fischer titrant 2 component 2 mg H <sub>2</sub> O/ml - non hygroscopic		1 l	570061	418

### ERBAqua® Coulometric reagents

Coulometric Karl Fischer method is highly effective and suitable when water content in the sample is less than 0.1% and high accuracy on the result is needed.

Designed for use with all titrators and titration cell types, a wide range is available in order to allow the necessary reagents both when a diaphragm or a diaphragmless cell is used.

For units with a diaphragm, two reagent solutions are required: an anolyte and a catolyte.

Description	Notes	Size	Code	Page
Karl Fischer fritless reagent		500 ml	570131	415
Karl Fischer anolyte solution - CFC free		500 ml	570141	415

Description	Notes	Size	Code	Page
Karl Fischer anolyte solution for ketones and aldehydes - Methanol free		500 ml	570161	415
Karl Fischer anolyte solution for oils		500 ml	570171	415
Karl Fischer anolyte solution, oven		500 ml	570151	416
Karl Fischer anolyte solution - pyridine free		500 ml	570121	416
Karl Fischer catholyte solution - Pyridine free		125 ml	570181	416
Karl Fischer catholyte solution		125 ml	570191	416

## ERBAqua® Water standards

Standardization of a Karl Fischer reagent is necessary in order to determine its water equivalency. ERBAqua range includes both volumetric and gravimetric reference materials suitable for this kind of application.

Description	Notes	Size	Code	Page
Karl Fischer water standard 0.10 mg/g		10 x 5 ml	570201	418
Karl Fischer water standard 1.0 mg/g		10 x 5 ml	570211	418
Karl Fischer water standard 10.0 mg/g		10 x 5 ml	570221	418
Karl Fischer water standard 5.0 mg/ml		10 x 5 ml	570231	419



The determination of the electrical conductivity or conductance is a key physical-chemical parameter for water analysis.

## Standard Solutions

CARLO ERBA Reagents offers the following reference solutions, which are certified with NIST traceability:

Description	Notes	Size	Code	Page
Standard solution 1.30 $\mu\text{S}/\text{cm}$		250 ml	575231	660
Standard solution 5 $\mu\text{S}/\text{cm}$		250 ml	575001	661
Standard solution 10 $\mu\text{S}/\text{cm}$		250 ml	575011	661
Standard solution 20 $\mu\text{S}/\text{cm}$		500 ml	575021	661
Standard solution 50 $\mu\text{S}/\text{cm}$		500 ml	575031	661
Standard solution 84 $\mu\text{S}/\text{cm}$		500 ml	575041	662
Standard solution 100 $\mu\text{S}/\text{cm}$		500 ml	575051	662
Standard solution 147 $\mu\text{S}/\text{cm}$		500 ml	575061	662
Standard solution 200 $\mu\text{S}/\text{cm}$		500 ml	575071	662
Standard solution 500 $\mu\text{S}/\text{cm}$		500 ml	575081	662
Standard solution 1000 $\mu\text{S}/\text{cm}$		500 ml	575091	662
Standard solution 1413 $\mu\text{S}/\text{cm}$		500 ml	575101	663
Standard solution 5000 $\mu\text{S}/\text{cm}$		500 ml	575111	663
Standard solution 10000 $\mu\text{S}/\text{cm}$		500 ml	575121	663
Standard solution 12880 $\mu\text{S}/\text{cm}$		500 ml	575131	663
Standard solution 20000 $\mu\text{S}/\text{cm}$		500 ml	575141	664
Standard solution 50000 $\mu\text{S}/\text{cm}$		500 ml	575151	664
Standard solution 100000 $\mu\text{S}/\text{cm}$		500 ml	575161	664
Standard solution 150000 $\mu\text{S}/\text{cm}$		500 ml	575171	664
Standard solution 200000 $\mu\text{S}/\text{cm}$		500 ml	575181	665
Standard solution 300000 $\mu\text{S}/\text{cm}$		500 ml	575191	665
Standard solution 350000 $\mu\text{S}/\text{cm}$		500 ml	575201	665
Standard solution 450000 $\mu\text{S}/\text{cm}$		500 ml	575211	665
Standard solution 500000 $\mu\text{S}/\text{cm}$		500 ml	575221	666



In molecular structure research and equilibrium studies, as well as studies on kinetics and steric effects, it is important to use solvents with high UV transmittance which contain no interfering substances absorbent in the IR spectral band and are suited for fluorescence analysis.

## SPECTROSOL® Solvents for optical spectroscopy

CARLO ERBA Reagents offers a line of special solvents for spectroscopy. These are high-purity products obtained through specific production processes, controlled and packaged in order to adequately meet the needs of modern ultraviolet, infrared and fluorescence analytical techniques.

Description	Notes	Size	Code	Page
Acetone		1 l	401034	126
Acetone		2.5 l	401032	126
Acetonitrile		1 l	401216	131
Acetonitrile		2.5 l	401212	131
tert-Butylmethylether		1 l	432001	217
tert-Butylmethylether		2.5 l	432002	217
Chloroform		1 l	438591	246
Chloroform		2.5 l	438592	246
Chloroform		1 l	438664	247
Chloroform		2.5 l	438662	247
Cyclohexane		1 l	436967	270
Cyclohexane		2.5 l	436963	270
1,2-Dichloroethane		1 l	P0282716	280
Dichloromethane		1 l	442371	283
Dichloromethane		1 l	463025	283
Diethyl ether		1 l	447593	289
n,n-Dimethylformamide		1 l	444957	296
n,n-Dimethylformamide		2.5 l	444956	296
Dimethylsulphoxide		1 l	445112	298
Dimethylsulphoxide		2.5 l	445111	298
Ethanol absolute anhydrous	Only for Italian market	1 l	414677	311
Ethanol absolute anhydrous		1 l	4146772	311
Ethanol 96°	Only for Italian market	1 l	414667	314
Ethanol 96°		1 l	4146672	314
Ethyl acetate		1 l	448271	321
Ethyl acetate		2.5 l	448272	321
n-Heptane 99%		1 l	446824	357
n-Hexane 99%		1 l	447051	362
n-Hexane 99%		2.5 l	447052	362
n-Hexane		1 l	446934	363
n-Hexane		2.5 l	446932	363
Isooctane		1 l	456754	411
Isooctane		2.5 l	456753	411
Methanol		1 l	414902	456
Methanol		2.5 l	414903	456
Paraffin oil		100 ml	466792	510
n-Pentane 99%		1 l	468142	512
n-Pentane 99%		2.5 l	468141	512
Potassium bromide		100 g	470701	539
Propan-2-ol		1 l	415213	574
Tetrachloroethylene		1 l	P0682716	692
Tetrachloroethylene		2.5 l	P0682721	692
Tetrahydrofuran		1 l	487345	694

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Description	Notes	Size	Code	Page
Tetrahydrofuran		2.5 l	487346	694
Toluene		1 l	488601	708
Toluene		2.5 l	488602	708
Trifluoroacetic acid		1 l	P0082746	715
Trifluoroacetic acid		2.5 l	P0082747	715



Indicators represent a practical and important tool for monitoring the progress of a reaction of an aqueous solution, operations which are often essential for obtaining correct analytical data.

## Indicators, for UV-fluorescence, Redox, Precipitation and Complexometry

- UV Fluorescence indicators

The use of chromatic indicators may not be equally effective with turbid or colored solutions, or when the change in concentration is not fast enough. In these cases, instrumental methods or fluorescence indicators may be adopted to identify the end point.

- Oxidation-reduction indicators

These indicators are substances that vary in color depending on whether they are in oxidized or reduced form. Their behavior is very similar to that of the indicators used in acid-base titration; however, while the latter are sensitive to changes in the solution's pH, oxidation-reduction indicators are sensitive to changes in the system's potential. The color changes are usually very clear and well-defined.

- Precipitation indicators

Precipitation titration methods have very limited applications compared to other types of volumetric analysis, but the few that are still employed are very useful in practical terms.

The titration process is based on the formation of an insoluble compound between the titrating agent and the substance being titrated, which gradually results from the reaction that occurs during titration.

Precipitation indicators allow visual identification of the end point of titration thanks to a change in color, which corresponds to the variation of a key characteristic, such as a change in the precipitate's electric charge (isoelectric point).

- Complexometry indicators

These are organic colorings, mainly of the azo group, which form stable complexes with metals and are characterized by different colors depending on whether they are in free form or complex form in the solution.

Description	Notes	Size	Code	Page
Alizarin		25 g	415892	136
Alizarin red		25 g	416002	136
Alizarin yellow R		10 g	453451	137
Alizarin yellow R		25 g	453452	137
Anthrone		25 g	423282	168
Arsenazo III		1 g	424281	171
Arsenazo III		25 g	424282	171
Azomethine H		10 g	424691	176
Azomethine H		25 g	424692	176
Bathophenanthroline sulfonate sodium salt		0.5 g	425601	184
Bromocresol Green		1 g	491207	199
Bromocresol Green		25 g	491208	199
Bromocresol purple		5 g	470038	200
Bromocresol purple		25 g	470039	200
Bromophenol blue		5 g	428658	201
Bromophenol blue		25 g	428659	201
Bromophenol blue		50 g	428653	201
Bromophenol blue		500 g	428655	201
Bromophenol blue indicator		1 l	PS0269/15	202
Bromophenol blue TAC indicator		1 l	PS0189/15	202
Bromophenol blue TAC indicator		1 l	PS0189/16	202
Bromothymol blue		5 g	428708	202
Bromothymol blue		25 g	428702	202
Bromothymol blue		50 g	428703	202
Calcon		25 g	434171	232
Calconcarbonic acid		5 g	403308	232
Calmagite		5 g	434181	232
Calmagite		25 g	434182	232
Chloramine T sodium salt		25 g	437555	242
Chloranil		50 g	437601	242
Chromazurol S		1 g	440591	250
Chromotropic acid disodium salt		25 g	404872	254
Clayton's yellow		5 g	453518	256



Description	Notes	Size	Code	Page
Clayton's yellow		25 g	453519	256
o-Cresol red		5 g	476778	266
m-Cresol purple		1 g	470067	267
m-Cresol purple		25 g	470068	267
Crystal violet		25 g	491502	268
Diacetyldioxime		50 g	441553	277
Diacetyldioxime sodium salt		50 g	441623	277
Diacetyldioxime sodium salt		250 g	441625	277
2',7'-Dichlorofluorescein		10 g	442541	281
2,6-Dichlorophenolindophenol sodium salt		5 g	442508	286
2,6-Dichlorophenolindophenol sodium salt		25 g	442509	286
2,6-Dichloroquinone-4-chlorimide		5 g	442458	286
Diethylenetriaminepentacetic acid		250 g	405192	289
Digitonin		25 g	444208	292
Dimedone		25 g	444252	293
p-Dimethylaminobenzaldehyde		100 g	444604	294
p-Dimethylaminobenzaldehyde		250 g	444603	294
p-Dimethylaminobenzylidenerhodanine		5 g	444678	295
Dimidium bromide		1 g	445232	300
Dimidium bromide		5 g	445231	300
Dimidium bromide		25 g	445233	300
4-Diphenylaminesulfonic acid sodium salt		25 g	443672	303
sym-Diphenylcarbazine		25 g	443752	303
sym-Diphenylcarbazine		100 g	443754	303
sym-Diphenylcarbazone		10 g	443801	303
2,5-Diphenyloxazole		100 g	443972	303
Diphenylthiocarbazone		50 g	444053	304
2,2'-Dipyridyl		25 g	445959	304
Dodecylbenzenesulphonic acid sodium salt		25 g	405352	305
Eriochrome black T		10 g	464221	309
Eriochrome black T		25 g	464222	309
Eriochromocyanine R		10 g	446811	310
Eriochromocyanine R		25 g	446812	310
Ferroun 0.025 mol/l solution		100 ml	526751	332
Fluorescein		25 g	452086	335
Fluorescein		50 g	452083	335
Fluorescein		500 g	452087	335
Fluorescein sodium salt		25 g	452112	335
Fluorescein sodium salt		50 g	452113	335
Fluorescein sodium salt		1 kg	452117	335
Fluorescein sodium salt		25 g	345356	335
Fluorescein sodium salt		1 kg	345357	335
Fluorexon		1 g	452141	335
Fluorexon		25 g	452142	335
Gentian violet		25 g	388703	346
Glyoxal-bis-(2-hydroxyanil)		10 g	454131	352
Idrimer Erba Solution A		500 ml	E455256	391
Idrimer Erba Solution A		1 l	E455257	391
Idrimer Erba Solution B		500 ml	E455266	391
Idrimer Erba Solution B		1 l	E455267	391
Idrimer Erba Indicator C		10 g	E455271	391

Description	Notes	Size	Code	Page
Idrimer Erba Indicator C		100 g	E455274	391
Indicator for ammoniacal nitrogen solution		250 ml	E455651	392
Indicator for iodometry		25 g	455622	392
Indicator for iodometry		250 g	455621	392
Indigo carmine dried		25 g	434932	394
Inulin		25 g	455902	396
Litmus		100 g	489054	434
Luminol		25 g	458772	436
Metanil yellow		25 g	453542	454
3-Methyl-2-benzothiazolinone hydrazone hydrochloride		5 g	462238	463
Methylene blue		100 g	428984	464
Methylene blue		25 g	429982	464
Methylene blue		500 g	429981	464
Methyl orange		25 g	423504	467
Methyl orange		50 g	423503	467
Methyl orange		250 g	423505	467
Methyl orange		500 g	423501	467
Methyl red		25 g	476882	469
Methyl red		50 g	476883	469
Methyl red		250 g	476881	469
Methylthymol blue sodium salt		1 g	429021	471
Methylthymol blue sodium salt		25 g	429022	471
Methyl yellow		25 g	444552	471
Morin		5 g	463508	477
Morin		25 g	463509	477
Murexide		5 g	463608	480
Murexide		25 g	463609	480
Neocuproine		1 g	444871	483
Neocuproine		25 g	444872	483
Neocuproine hydrochloride		1 g	444731	483
Neocuproine hydrochloride		25 g	444732	483
o-Phenantroline-Iron (II) sulphate solution in sulphuric acid		100 ml	E450043	523
Phenol red		5 g	476838	525
Phenolphthalein		100 g	451154	525
Phenolphthalein		500 g	451156	525
Pyrocatechol violet		25 g	491872	582
Quinaldine red		25 g	476688	584
Red for oils O		25 g	476961	586
Starch paste solution 1%		250 ml	E477301	666
Starch paste solution 1%		1 l	E477302	666
Sudan III hydroalcoholic saturated solution		250 ml	E485952	672
Sudan yellow		25 g	453582	672
Thymol blue		5 g	429228	700
Thymol blue		25 g	429222	700
Thymol blue		50 g	429223	700
Thymolphthalein		5 g	487728	701
Thymolphthalein		25 g	487729	701
Tiron		10 g	488131	704
Tiron		25 g	488132	704

Description	Notes	Size	Code	Page
Tropaeolin O		10 g	490001	721
Tropaeolin O		25 g	490002	721
Xylenecyanol		1 g	492211	733
Xylenecyanol		25 g	492212	733
Xylenol orange		1 g	423597	733
Xylenol orange		5 g	423598	733
Xylenol orange		25 g	423599	733
Zincon		5 g	495144	744



# Shuttle Service

Stainless steel returnable containers to optimize solvent quality and the management of packaging waste



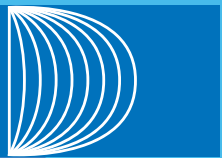
- Improved safety
- Environmental impact
- Quality preserved
- Efficient Logistic



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# PRODUCTS



# Labware Consumable & Instruments



- Glassware
- Plasticware
- Liquid Handling
- Chromatography
- Analytical Instruments



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## Absorbent for split liquids

Assorbente per liquidi versati • Absorbant pour liquides répandus • Absorbente para líquidos derramados

### Absorbent for split liquids > RE - Pure

RE

Description ..... Polvere nocciola Identification ..... Positive

Code	Size	Packaging	Notes
300101	1 kg	Plastic bottle	
300102	5 kg	Plastic jar	



## Acetal

Acetale • Acétal • Acetal

Synonym:  
1,1-Diethoxyacetal  
1,1-Diethoxyethane

$\text{CH}_3\text{CH}(\text{OC}_2\text{H}_5)_2$   
Molecular Weight: 118,18  
CAS: 105-57-7  
EEC-N: 203-310-6

**Classification transport**  
ONU: 1088  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H315-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Acetal > RE - Pure - Reagent Ph.Eur.

RE

Description ..... Clear colourless liquid Density at 20° C ..... 0.822 ÷ 0.829 Assay (GLC) ..... ≥ 98.5 %  
Identification ..... Positive Refractive index at 20°C ..... 1.3790 ÷ 1.3850

Code	Size	Packaging	Notes
400155	100 ml	Glass bottle	



## Acetamide

Acetammide • Acétamide • Acetamida

Synonym:  
Amide C2

$\text{CH}_3\text{CONH}_2$   
Molecular Weight: 59,07  
CAS: 60-35-5  
EEC-N: 200-473-5



**Warning**  
H351  
P280-P201-P202-P308+P313-P405-P501a

### Acetamide > RPE - For analysis

RPE

Description ..... Colourless crystals Acetate ..... ≤0.2 % Heavy metals (Pb) ..... ≤5 ppm Fe ..... ≤5 ppm  
Identification ..... Positive Chloride ..... ≤20 ppm Residue on ignition ..... ≤100 ppm Assay (ex nitrogen) ..... 99 ÷ 100 %  
Melting point ..... 78.5 ÷ 81.5 °C Alcohol-benzene insol. ..... ≤100 ppm Sulphate ..... ≤20 ppm

Code	Size	Packaging	Notes
400204	100 g	Plastic bottle	



## Acetanilide

Acetanilide • Acétanilide • Acetanilida

Synonym:  
N-Phenylacetamide

$\text{CH}_3\text{CONHC}_6\text{H}_5$   
Molecular Weight: 135,17  
CAS: 103-84-4  
EEC-N: 203-150-7



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Acetanilide > RPE - For analysis

RPE

Description ..... Whitish powder Melting point ..... 111 ÷ 115 °C Residue on ignition ..... ≤ 0.1 %  
Identification ..... Positive Water (K.F.) ..... ≤ 0.2 % Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
400255	250 g	Plastic bottle	



## Acetate buffer pH 4.6

Tampone acetato pH 4.6 • Tampon acétate pH 4.6 • Tampón acetato pH 4.6

### Acetate buffer pH 4.6 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614001400	1 l	Plastic bottle	Ref Ph.Eur 4001400



## Acetate buffer pH 6.0

Tampone acetato pH 6.0 • Tampon acétate pH 6.0 • Tampón acetato pH 6.0

### Acetate buffer pH 6.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614002200	1 l	Plastic bottle	Ref Ph.Eur 4002200



## Acetic acid glacial

Acido acetico glaciale • Acide acétique glacial • Acido acético glacial

CH<sub>3</sub>COOH

Molecular Weight: 60,05

CAS: 64-19-7

EEC-N: 200-580-7

### Classification transport

ONU: 2789

Transport Hazard class: 8

Packing group II



### Danger

H226-H314

P210-P241-P264-P301+P330+P331-

P303+P361+P353-P304+P340-P305+P351+P338-

P403+P235

### Acetic acid glacial > RS - For LC/MS

RS

Description	Clear colourless liquid	Subst. reducing KMnO <sub>4</sub>	Conform	at 260 nm	≥ 80 %	Ca	≤ 0.1 ppm
Colour (APHA)	≤ 10	Subst. reducing dichromate	Conform	at 270 nm	≥ 95 %	Mg	≤ 0.1 ppm
Refractive index at 20°C	1.3711 ÷ 1.3731	Residue on evaporation	≤ 5 ppm	at 280 nm	≥ 97 %	K	≤ 0.1 ppm
Density at 20°C	1.0501 ÷ 1.0521	Assay (GC)	≥ 99.95 %	Al	≤ 0.05 ppm		
Boiling point	118.3 - 118.8 °C	<b>U.V. Transmittance</b>		Fe	≤ 0.2 ppm		
Water (K.F.)	≤ 0.1 %	at 254 nm	≥ 30 %	Na	≤ 0.5 ppm		

Code	Size	Packaging	Notes
401411	10 x 1 ml	Ampoule	
401412	10 x 2.5 ml	Ampoule	
401413	50 ml	Plastic bottle	
401414	1 l	Glass bottle	

Additive for eluent phase for LC-MS. Store at temperature > 20 °C

### Acetic acid glacial > RS - For HPLC - Isocratic Grade

RS

Appearance	Clear colourless liquid	Water content (K.F.)	≤ 0.05 % m/m	UV transmittance at 260 nm	≥ 80 %	Assay (GC)	≥ 99.8 %
Colour	≤ 10 Hazen	UV transmittance at 254 nm	≥ 25 %	Non volatile residue	≤ 10 mg/Kg		

Code	Size	Packaging	Notes
401431	1 l	Glass bottle	
401432	2.5 l	Glass bottle	

Store at temperature > 20 °C

### Acetic acid glacial > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear colourless liquid	Mn	≤ 10 ppt	Cs	≤ 10 ppt	Re	≤ 10 ppt
Identification	Positive	Mo	≤ 10 ppt	Dy	≤ 1 ppt	Rh	≤ 50 ppt
Ag	≤ 50 ppt	Na	≤ 100 ppt	Er	≤ 1 ppt	Rb	≤ 10 ppt
Al	≤ 50 ppt	Ni	≤ 50 ppt	Eu	≤ 1 ppt	Ru	≤ 50 ppt
As	≤ 50 ppt	Pb	≤ 10 ppt	Gd	≤ 1 ppt	Sm	≤ 1 ppt
Ba	≤ 10 ppt	Sb	≤ 50 ppt	Ga	≤ 10 ppt	Sc	≤ 10 ppt
Be	≤ 10 ppt	Sn	≤ 50 ppt	Ge	≤ 10 ppt	Te	≤ 1 ppt
Bi	≤ 10 ppt	Sr	≤ 10 ppt	Hf	≤ 10 ppt	Tb	≤ 1 ppt
Ca	≤ 50 ppt	Ti	≤ 10 ppt	Ho	≤ 1 ppt	Tm	≤ 1 ppt
Cd	≤ 10 ppt	V	≤ 10 ppt	In	≤ 1 ppt	W	≤ 10 ppt
Co	≤ 10 ppt	Zn	≤ 50 ppt	La	≤ 1 ppt	Yb	≤ 1 ppt
Cr	≤ 10 ppt	Zr	≤ 10 ppt	Li	≤ 10 ppt	Y	≤ 1 ppt
Cu	≤ 10 ppt	Assay (acidimetric)	≥ 99.9 %	Lu	≤ 10 ppt	Tl	≤ 10 ppt
Fe	≤ 50 ppt	U	≤ 1 ppt	Nd	≤ 1 ppt		
K	≤ 50 ppt	Th	≤ 1 ppt	Pt	≤ 50 ppt		
Mg	≤ 50 ppt	Ce	≤ 10 ppt	Pr	≤ 1 ppt		

Code	Size	Packaging	Notes
401361	500 ml	Plastic bottle	

Store at temperature above 20 °C



## Acetic acid glacial > RS - Superpure - For trace analysis at ppb level

**RS**

Description	Clear colourless liquid	Cr	≤ 1 ppb	Mg	≤ 0.5 ppb	Sr	≤ 0.5 ppb
Colour (APHA)	≤ 10	Cs	≤ 0.1 ppb	Mn	≤ 0.5 ppb	Tb	≤ 0.1 ppb
Identification	Positive	Cu	≤ 0.5 ppb	Mo	≤ 0.5 ppb	Te	≤ 0.5 ppb
Chloride	≤ 1 ppm	Dy	≤ 0.1 ppb	Na	≤ 1 ppb	Th	≤ 0.1 ppb
Phosphate	≤ 1 ppm	Er	≤ 0.1 ppb	Nd	≤ 0.1 ppb	Ti	≤ 0.5 ppb
Sulphate	≤ 0.5 ppm	Eu	≤ 0.1 ppb	Ni	≤ 0.5 ppb	Tl	≤ 0.1 ppb
Reducing dichromate	Conform	Fe	≤ 1 ppb	Pb	≤ 0.1 ppb	Tm	≤ 0.1 ppb
Subst. reducing KMnO4	Conform	Ga	≤ 0.1 ppb	Pr	≤ 0.1 ppb	U	≤ 0.1 ppb
Al	≤ 1 ppb	Ge	≤ 0.5 ppb	Pt	≤ 0.5 ppb	V	≤ 0.5 ppb
Ag	≤ 1 ppb	Gd	≤ 0.1 ppb	Rb	≤ 0.1 ppb	W	≤ 0.5 ppb
As	≤ 0.5 ppb	Hf	≤ 0.1 ppb	Re	≤ 0.1 ppb	Y	≤ 0.1 ppb
Ba	≤ 0.5 ppb	Hg	≤ 1 ppb	Rh	≤ 0.5 ppb	Yb	≤ 0.1 ppb
Be	≤ 0.1 ppb	Ho	≤ 0.1 ppb	Ru	≤ 0.5 ppb	Zn	≤ 1 ppb
Bi	≤ 0.1 ppb	In	≤ 0.1 ppb	Sb	≤ 0.5 ppb	Zr	≤ 0.1 ppb
Ca	≤ 1 ppb	K	≤ 1 ppb	Sc	≤ 0.1 ppb	Assay (acidimetric)	≥ 99 %
Cd	≤ 0.5 ppb	La	≤ 0.1 ppb	Se	≤ 1 ppb		
Ce	≤ 0.1 ppb	Li	≤ 0.1 ppb	Sm	≤ 0.1 ppb		
Co	≤ 0.1 ppb	Lu	≤ 0.1 ppb	Sn	≤ 0.5 ppb		

Code	Size	Packaging	Notes
401405	500 ml	Plastic bottle	
401406	1 l	Plastic bottle	
401407	2.5 l	Plastic bottle	

**Store at temperature > 20 °C**

## Acetic acid glacial > RS - RSE - For electronic use

**RS**

Description	Clear liquid	Phosphate	≤ 0.1 ppm	Ca	≤ 0.2 ppm	Na	≤ 0.2 ppm
Colour (APHA)	≤ 10	Heavy metals (Pb)	≤ 0.2 ppm	Cd	≤ 0.01 ppm	Ni	≤ 0.03 ppm
Identification	Positive	Reducing chromic acid	≤ 100 ppm	Co	≤ 0.01 ppm	Pb	≤ 0.01 ppm
Water miscibility	Conform	Subst. reducing KMnO4	≤ 10 ppm	Cr	≤ 0.03 ppm	Pt	≤ 0.05 ppm
Freezing point	≥ 16.24 °C	Sulphate	≤ 0.5 ppm	Cu	≤ 0.01 ppm	Sb	≤ 0.005 ppm
Assay (acidimetric)	≥ 99.9 %	Ag	≤ 0.02 ppm	Fe	≤ 0.1 ppm	Sn	≤ 0.02 ppm
Density at 20° C	1.0495 ÷ 1.0503	Al	≤ 0.01 ppm	Ga	≤ 0.02 ppm	Sr	≤ 0.02 ppm
Boiling point	118.3 ÷ 118.8 °C	As	≤ 0.005 ppm	In	≤ 0.02 ppm	Ta	≤ 0.1 ppm
Residue on evaporation	≤ 5 ppm	Au	≤ 0.05 ppm	K	≤ 0.1 ppm	Ti	≤ 0.05 ppm
Formic acid	≤ 0.1 %	B	≤ 0.01 ppm	Li	≤ 0.02 ppm	Tl	≤ 0.05 ppm
Acetic anhydride	≤ 100 ppm	Ba	≤ 0.1 ppm	Mg	≤ 0.05 ppm	V	≤ 0.05 ppm
Chloride	≤ 1 ppm	Be	≤ 0.02 ppm	Mn	≤ 0.01 ppm	Zn	≤ 0.05 ppm
Carbonyl Compounds (CO)	≤ 2 ppm	Bi	≤ 0.02 ppm	Mo	≤ 0.05 ppm	Zr	≤ 0.05 ppm

Code	Size	Packaging	Notes
401463	1 l	Glass bottle	
401462	2.5 l	Glass bottle	

**Store at temperature > 20 °C**

## Acetic acid glacial > RS - For potentiometry

**RS**

Refractive index at 20°C	1.371 - 1.374	Reducing substances	Conform	Aluminium (Al)	≤ 0.05 mg/Kg	Magnesium (Mg)	≤ 0.1 mg/Kg
Water content (K.F.)	≤ 1000 mg/Kg	Assay (GC)	≥ 99.8 %	Barium (Ba)	≤ 0.1 mg/Kg	Manganese (Mn)	≤ 0.05 mg/Kg
Non volatile residue	≤ 10 mg/Kg	Acetic anhydride	≤ 0.025 %	Cadmium (Cd)	≤ 0.05 mg/Kg	Lead (Pb)	≤ 0.05 mg/Kg
Colour	≤ 10 Hazen	Chloride (Cl-)	≤ 1 mg/Kg	Cobalt (Co)	≤ 0.05 mg/Kg	Zinc (Zn)	≤ 0.1 mg/Kg
Titrate base	Conform	Sulphate (SO4-)	≤ 1 mg/Kg	Iron (Fe)	≤ 1 mg/Kg	Arsenic (As)	≤ 0.02 mg/Kg

Code	Size	Packaging	Notes
P00725P15	1 l	Plastic bottle	
P00725P21	2.5 l	Glass bottle	

**Store at temperature > 20 °C**

## Acetic acid glacial > RS - For titration in non-aqueous medium

**RS**

Description	Clear colourless liquid	Identification	Positive	Density at 20° C	1.049 ÷ 1.051	Assay	≥ 99.8 %
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Code	Size	Packaging	Notes
401453	1 l	Glass bottle	
401455	2.5 l	Glass bottle	

**Store at temperature > 20 °C**

 a  
b  
c  
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j  
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l  
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o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

## Acetic acid glacial > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description . Clear liquid or crystalline mass	Formic acid.....≤0.05 %	Bi.....≤0.02 ppm	Na.....≤0.5 ppm
Colour (APHA) ..... ≤10	Acetic anhydride .....≤100 ppm	Ca.....≤0.2 ppm	Ni.....≤0.03 ppm
Identification ..... Positive	Chloride.....≤1 ppm	Cd.....≤0.05 ppm	Pb.....≤0.02 ppm
Water miscibility.....Conform	Carbonyl Compounds (CO).....≤2 ppm	Co.....≤0.01 ppm	Sr.....≤0.02 ppm
Titration base.....Conform	Phosphate.....≤0.5 ppm	Cr.....≤0.03 ppm	Ti.....≤0.1 ppm
Subst. reducing KMnO4.....Conform	Heavy metals (Pb).....≤0.5 ppm	Cu.....≤0.01 ppm	Tl.....≤0.05 ppm
Density at 20° C .....1.0501 ÷ 1.0521	Sulphate.....≤0.5 ppm	Fe.....≤0.2 ppm	V.....≤0.05 ppm
Refractive index at 20°C. 1.3711 ÷ 1.3731	Ag.....≤0.02 ppm	K.....≤0.1 ppm	Zn.....≤0.05 ppm
Boiling point..... 118.3 ÷ 118.8 °C	Al.....≤0.05 ppm	Li.....≤0.02 ppm	Zr.....≤0.1 ppm
Freezing point..... ≥16 °C	As.....≤0.01 ppm	Mg.....≤0.1 ppm	Reducing chromic acid.....Conform ACS
Assay (acidimetric) .....99.5 ÷ 100.5 %	Ba.....≤0.01 ppm	Mn.....≤0.01 ppm	Water (K.F.).....≤ 1500 ppm
Residue on evaporation .....≤ 10 ppm	Be.....≤0.02 ppm	Mo.....≤0.05 ppm	Acetaldehyde.....≤ 500 ppm

Code	Size	Packaging	Notes
401421	1 l	Glass bottle PVC coated	
401422	1 l	Glass bottle	
401424	2.5 l	Glass bottle	
401425	30 kg	Plastic drum	

**Store at temperature > 20 °C**

## Acetic acid glacial > RPE - For analysis

**RPE**

Description . Clear liquid or crystalline mass	Acetic anhydride .....≤100 ppm	Ca.....≤0.2 ppm	Ni.....≤0.03 ppm
Colour (APHA) ..... ≤10	Chloride.....≤1 ppm	Cd.....≤0.05 ppm	Pb.....≤0.02 ppm
Identification ..... Positive	Carbonyl Compounds (CO).....≤2 ppm	Co.....≤0.01 ppm	Sr.....≤0.02 ppm
Water miscibility.....Conform	Phosphate.....≤0.5 ppm	Cr.....≤0.03 ppm	Ti.....≤0.1 ppm
Subst. reducing KMnO4.....Conform	Heavy metals (Pb).....≤0.5 ppm	Cu.....≤0.01 ppm	Tl.....≤0.05 ppm
Density at 20° C .....1.0501 ÷ 1.0521	Sulphate.....≤0.5 ppm	Fe.....≤0.5 ppm	V.....≤0.05 ppm
Refractive index at 20°C. 1.3711 ÷ 1.3731	Ag.....≤0.02 ppm	K.....≤0.1 ppm	Zn.....≤0.05 ppm
Boiling point..... 118.3 ÷ 118.8 °C	Al.....≤0.05 ppm	Li.....≤0.02 ppm	Zr.....≤0.1 ppm
Freezing point..... ≥16 °C	As.....≤0.01 ppm	Mg.....≤0.1 ppm	Water (K.F.).....≤ 1500 ppm
Assay (acidimetric) .....99.5 ÷ 100.5 %	Ba.....≤0.01 ppm	Mn.....≤0.01 ppm	Assay (CPG).....≥ 99.8 %
Residue on evaporation .....≤10 ppm	Be.....≤0.02 ppm	Mo.....≤0.05 ppm	Acetaldehyde.....≤ 500 ppm
Formic acid.....≤0.05 %	Bi.....≤0.02 ppm	Na.....≤0.5 ppm	

Code	Size	Packaging	Notes
401391	1 l	Glass bottle	
524520	1 l	Plastic bottle	
401392	2.5 l	Glass bottle	
524521	2.5 l	Plastic bottle	
401396	30 kg	Plastic drum	
401397	200 kg	Polythene-metal drum	

**Store at temperature > 20°C**

## Acetic acid glacial > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP-FU-NF-DAB-JP

**ERBapharm**

Description .....Clear, colourless liquid or crystalline mass	Reducing impurities.....Conform Ph.Eur.	Water (K.F.).....≤ 3000 ppm	Heavy metals (Pb).....≤ 5 ppm
Identification ..... Positive	Ready oxidizable substances.....Conform USP-NF	Residue on evaporation .....≤ 50 mg/l	Fe.....≤ 5 ppm
Appearance of solution.....Conform Ph.Eur.	Freezing point ..... ≥ 15.6 °C	Chloride.....≤ 2 mg/l	Assay (acidimetric) .....99.5 ÷ 100.5 %
Colour ..... ≤ 10 APHA	Refractive index at 20°C..... 1.370 - 1.374	Sulphate.....≤ 2 mg/l	Origin (BSE/TSE)..... Synthesis
		Sulfate..... Conform USP-NF	

Code	Size	Packaging	Notes
302016	1 l	Glass bottle	
302011	2.5 l	Glass bottle	
302014	5 l	Plastic tank	
302015	30 kg	Plastic drum	
302013	200 kg	Polythene-metal drum	

**Store at temperature > 20 °C**

**Acetic acid glacial > RE - Pure**

RE

Description .....	Clear liquid	Subst. reducing KMnO <sub>4</sub> .....	≤ 40 ppm	Water .....	≤ 2500 ppm	Sulphate .....	≤ 2 ppm
Density at 20°C .....	1.049 ÷ 1.051	Density at 20° C .....	1.050 ÷ 1.052	Formic acid .....	≤ 100 ppm	As .....	≤ 0.5 ppm
Colour (APHA) .....	≤ 10	Refractive index at 20°C .....	1.371 ÷ 1.373	Chloride .....	≤ 1 ppm	Cu .....	≤ 0.1 ppm
Identification .....	Positive	Boiling point .....	118.3 ÷ 118.8 °C	Carbonyl Compounds (CO) .....	≤ 2 ppm	Fe .....	≤ 1 ppm
Water miscibility .....	Conform	Freezing point .....	≥ 16.24 °C	Heavy metals (Pb) .....	≤ 1 ppm	Ni .....	≤ 0.1 ppm
Assay .....	≥ 99 %	Residue on evaporation .....	≤ 30 ppm	Reducing chromic acid .....	≤ 30 ppm	Assay (acidimetric) .....	≥ 99.8 %

Code	Size	Packaging	Notes
302031	1 l	Plastic bottle	
302032	2.5 l	Glass bottle	
302034	5 l	Plastic tank	
302033	10 l	Plastic tank	

**Store at temperature > 20 °C****Acetic acid 96%**

Acido acetico 96% • Acide acétique 96% • Acido acético 96%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7  
EEC-N: 200-580-7

**Classification transport**

ONU: 2789  
Transport Hazard class: 8  
Packing group II

**Danger**

H226-H314  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

**Acetic acid 96% > RE - Pure**

RE

Description .....	Clear colourless liquid	Density at 20° C .....	1.049 ÷ 1.051	Heavy metals (Pb) .....	≤50 ppm	Iron .....	≤50 ppm
Identification .....	Positive	Residue on evaporation .....	≤100 ppm	Sulphate .....	≤1000 ppm	Assay (acidimetric) .....	≥96 %

Code	Size	Packaging	Notes
302002	1 l	Glass bottle	
302003	2.5 l	Glass bottle	
302005	25 kg	Plastic tank	
302007	50 kg	Plastic tank	

**Store at temperature > 20 °C****Acetic acid 80%**

Acido acetico 80% • Acide acétique 80% • Acido acético 80%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

**Classification transport**

ONU: 2789  
Transport Hazard class: 8  
Packing group II

**Danger**

H226-H314  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

**Acetic acid 80% > RE - Pure**

RE

Description .....	Clear liquid	Density at 20° C .....	1.069 ÷ 1.071	Acetic anhydride .....	≤500 ppm	As .....	≤0.4 ppm
Acetic acid content .....	80.5 - 82.5 %	Subst. reducing KMnO <sub>4</sub> .....	≤40 ppm	Chloride .....	≤1 ppm	Cu .....	≤0.1 ppm
Colour (APHA) .....	≤10	Residue on evaporation .....	≤30 ppm	Heavy metals (Pb) .....	≤2 ppm	Fe .....	≤0.5 ppm
Identification .....	Positive	Formic acid .....	≤200 ppm	Sulphate .....	≤1 ppm	Ni .....	≤0.1 ppm
Water miscibility .....	Conform	Alcoh acetone acetaldeh .....	≤50 ppm	Al .....	≤0.1 ppm	Assay (acidimetric) .....	80.5 ÷ 82.5 %

Code	Size	Packaging	Notes
301855	5 l	Plastic tank	
PS0776/49	25 l	Plastic tank	
301852	50 kg	Plastic tank	
301853	200 kg	Plastic drum	

**Store at temperature > 20°C**



## Acetic acid 45%

Acido acetico 45% • Acide acétique 45% • Acido acético 45 %

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Acetic acid 45% > RE - Pure - For glassware washing

RE

Description ..... Clear colourless liquid Assay (acetic acid)..... 44 ÷ 46 %

Code	Size	Packaging	Notes
526545	5 l	Plastic tank	
526546	10 l	Plastic tank	



## Acetic acid 30%

Acido acetico 30% • Acide acétique 30% • Acido acético 30%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Acetic acid 30% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611000401	1 l	Plastic bottle	Ref Ph.Eur 1000401



## Acetic acid 28%

Acido acetico 28% • Acide acétique 28% • Acido acético 28 %

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Acetic acid 28% > RE - Pure

RE

Description ..... Clear colourless liquid Residue on evaporation ..... ≤500 ppm Fe ..... ≤20 ppm  
Density at 20° C ..... 1.035 - 1.037 Heavy metals (Pb)..... ≤50 ppm Assay (acidimetric) ..... 28 - 30 %

Code	Size	Packaging	Notes
301826000	1 l	Glass bottle	



## Acetic acid 27%

Acido acetico 27% • Acide acétique 27% • Acido acético 27 %

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Acetic acid 27% > RS - For glassware washing

RS

Assay (acidimetric) ..... 26 ÷ 28 %

Code	Size	Packaging	Notes
508645	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed**

**Acetic acid 25%**

Acido acetico 25% • Acide acétique 25% • Acido acético 25 %

CH<sub>3</sub>COOH  
Molecular Weight: 60.05  
CAS: 64-19-7

**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

**Acetic acid 25% > RE - Pure**

RE

Density d20/4 ..... 1.03 - 1.032 Acetic acid content ..... 24 - 26 %

Code	Size	Packaging	Notes
PS0222/52	30 l	Plastic tank	

**Acetic acid 17%**

Acido acetico 17% • Acide acétique 17% • Acido acético 17%

CH<sub>3</sub>COOH  
Molecular Weight: 60,05  
CAS: 64-19-7

**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Warning**  
H315-H319  
P264-P280g-P280i-P305+P351+P338-P332+P313-  
P337+P313

**Acetic acid 17% > RE - Pure - For washing**

RE

Assay ..... 15 - 20 %

Code	Size	Packaging	Notes
PS0808/41	10 l	Plastic tank	

**Acetic acid 12%**

Acido acetico 12% • Acide acétique 12% • Acido acético 12 %

CH<sub>3</sub>COOH  
Molecular Weight: 60.05  
CAS: 64-19-7

**Classification transport**  
ONU: 2790  
Transport Hazard class: 8  
Packing group III



**Warning**  
H315-H319  
P264-P280g-P280i-P305+P351+P338-P332+P313-  
P337+P313

**Acetic acid 12% > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611000402	1 l	Plastic bottle	Ref Ph.Eur 1000402

**Acetic acid 12% > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.014 ÷ 1.016 Assay (acidimetric) ..... 11.5 - 12.5 %

Code	Size	Packaging	Notes
401531	1 l	Glass bottle	

**Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed****Acetic acid 12% > RE - Pure**

RE

Density d20/4 ..... 1.014 - 1.015 Acetic acid content ..... 11.5 - 12.5 %

Code	Size	Packaging	Notes
PS0221/29	5 l	Plastic tank	

a

b

c

d

e

f

g

h

i

j

k

l

m

n

o

p

q

r

s

t

u

v

w

x

y

z



## Acetic acid 1 mol/l (1N)

Acido acetico 1 mol/l (1N) • Acide acétique 1 mol/l (1N) • Acido acético 1 mol/l (1N)

CH<sub>3</sub>COOH HEU210  
Molecular Weight: 60,05  
CAS: 64-19-7

### Acetic acid 1 mol/l (1N) > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000171	1 l	Plastic bottle	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

### Acetic acid 1 mol/l (1N) > RPE - For analysis - Reag. Ph.Eur. - Reag. USP

RPE

Assay (potentiometric) ..... 0.998 ÷ 1.002 mol/L

Code	Size	Packaging	Notes
524605	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

### Acetic acid 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N

Code	Size	Packaging	Notes
502000	1 l	Glass bottle	

**Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed**

### Acetic acid 1 mol/l (1N) > ERBapharm - Prepared from raw material according Ph.Eur

ERBapharm

Identification (Ph.Eur)..... Conform Assay (Ph.Eur).....0.95 - 1.05 N Origine (BSE-TSE)..... Conform Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
524641	1 l	Plastic bottle	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**



## Acetic acid 0.1 mol/l (0.1N)

Acido acetico 0.1 mol/l (0.1N) • Acide acétique 0.1 mol/l (0.1N) • Acido acético 0.1 mol/l (0.1N)

CH<sub>3</sub>COOH HEU210  
Molecular Weight: 60,05  
CAS: 64-19-7

### Acetic acid 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.0999 - 0.1001 N

Code	Size	Packaging	Notes
P3100015	1 l	Plastic bottle	

### Acetic acid 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
401561		Plastic ampoule	Volume : 55 ml

**6,005 g of CH<sub>3</sub>COOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Acetic acid 0.03 mol/l (0.03N)

Acido acetico 0.03 mol/l (0.03N) • Acide acétique 0.03 mol/l (0.03N) • Acido acético 0.03 mol/l (0.03N)

CH<sub>3</sub>COOH HEU210  
Molecular Weight: 60,05  
CAS: 64-19-7

### Acetic acid 0.03 mol/l (0.03N) > RPE - For analysis - Reag. Ph.Eur. - Reag. USP

RPE

Assay (potentiometric) ..... 0.02994 ÷ 0.03006 mol/L

Code	Size	Packaging	Notes
524611	10 l	Kubidos	

**Acetic acid-d4**

Acido acetico-d4 • Acide acétique-d4 • Acido acético-d4

Synonym:

Tetradeuteroacetic acid

CD<sub>3</sub>COOD  
Molecular Weight: 64,08  
CAS: 1186-52-3  
EEC-N: 214-693-4

**Classification transport**  
ONU: 2789  
Transport Hazard class: 8  
Packing group II

**Danger**

H226-H314  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

**Acetic acid-d4 > RS - For NMR - min 99.5%**

RS

Code	Size	Packaging	Notes
P5013A	5 ml	Glass ampoule	

**Acetic acid-d4 > RS - For NMR - min 99,9%**

RS

Code	Size	Packaging	Notes
P5039	10 x 0.75 ml	Glass ampoule	

Acetic acid isopropyl ester ► Isopropyl acetate

Acetic acid magnesium salt ► Magnesium acetate tetrahydrate

**Acetic anhydride**

Anidride acetica • Anhydride acétique • Anhídrido acético

(CH<sub>3</sub>CO)<sub>2</sub>O  
Molecular Weight: 102,09  
CAS: 108-24-7

**Classification transport**  
ONU: 2733  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H302-H312-H332-H314-H318-H335  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

**Acetic anhydride > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611000501	1 l	Glass bottle	Acetic anhydride solution R1 Ref Ph.Eur 1000501

**Storage: protected from light and air****Acetic anhydride > RPE - For analysis - ACS**

RPE

Description .....	Clear liquid	Refractive index at 20°C. 1.3881 ÷ 1.3931	Chloride.....	≤5 ppm	Fe.....	≤5 ppm	
Colour (APHA) .....	≤20	Boiling point.....	136 ÷ 142 °C	Phosphate .....	≤10 ppm	Assay (GLC) .....	≥97.0 %
Identification .....	Positive	Residue on evaporation .....	≤30 ppm	Heavy metals (Pb).....	≤2 ppm		
Density at 20° C .....	1.080 ÷ 1.084	Subst. reducing KMnO4.....	Conform ACS	Sulphate .....	≤5 ppm		

Code	Size	Packaging	Notes
421491	1 l	Glass bottle	
421496	2.5 l	Glass bottle	
421493	30 kg	Plastic drum	

**Storage: protected from light and air****Acetic anhydride > RE - Pure**

RE

Description .....	Clear liquid	Refractive index at 20°C. 1.3856 ÷ 1.3956	Chloride.....	≤5 ppm	Assay (GLC) .....	≥99.5 %	
Identification .....	Positive	Residue on evaporation .....	≤100 ppm	Heavy metals (Pb).....	≤ 2 ppm	Assay (acidimetric) .....	≥99.5 % (m/m)
Colour .....	≤ 10 APHA	Subs. reducing KMnO4.....	≤ 0.02 %	Al .....	≤ 1 ppm		
Density at 20° C .....	1.079 ÷ 1.085	Acetic acid.....	≤ 0.5 %	Fe .....	≤ 1 ppm		

Code	Size	Packaging	Notes
316501	1 l	Glass bottle	
316503	30 kg	Plastic drum	
316502	210 kg	Metal drum	

**Storage: protected from light and air**

## Acetoacetic ester ► Ethyl acetoacetate



### Acetone

Acetone • Acétone • Acetona

Synonym:  
2-Propanone

CH<sub>3</sub>COCH<sub>3</sub>  
Molecular Weight: 58  
CAS: 67-64-1  
EEC-N: 200-662-2

**Classification transport**  
ONU: 1090  
Transport Hazard class: 3  
Packing group II



#### Danger

H225-H319-H336-HEU066  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### Acetone > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid	Boiling point..... 55.8 ÷ 56.3 ° C	Alcalinity ..... ≤ 0.0002 meq/g	at 340 nm ..... ≥ 85 %
Identification ..... Positive	Water (K.F.) ..... ≤ 500 ppm	Assay (GLC) ..... ≥ 99.9 %	At 345 nm ..... ≥ 90 %
Density at 20° C ..... 0.790 ÷ 0.792	Residue on evaporation ..... ≤ 5 ppm	<b>U.V. Transmittance</b>	at 350 nm ..... ≥ 98 %
Refractive index at 20°C. 1.3581 ÷ 1.3601	Acidity ..... ≤ 0.0005 meq/g	At 335 nm ..... ≥ 60 %	at 360 nm ..... ≥ 99 %

Code	Size	Packaging	Notes
412501	1 l	Glass bottle	
412502	2.5 l	Glass bottle	

### Acetone > RS - ATRASOL - For analysis of volatile traces

RS

Refractive index at 20°C ..... 1.357 - 1.361	2-Propanol ..... ≤ 500 mg/Kg	Methanol ..... ≤ 500 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>
Water content (K.F.) ..... ≤ 500 mg/Kg	Non volatile residue ..... ≤ 2 mg/Kg	GC ( FID ) - NC Atrasol ..... Conform	GC-FID. Individ. peak (hexadecane) .. ≤ 5 µg/l
Colour ..... ≤ 10 Hazen	Ethanol ..... ≤ 100 mg/Kg	GC-ECD. Individual peak (Lindane) .. ≤ 2 ng/l	<b>Retention time range over tolouène</b>
Free acid (as CH <sub>3</sub> COOH) ..... ≤ 20 mg/Kg	Assay (GC) ..... ≥ 99.8 %		GC-ECD. Individual peak (CCl <sub>4</sub> ) ..... ≤ 1 µg/l

Code	Size	Packaging	Notes
P0053216	1 l	Glass bottle	
P0053221	2.5 l	Glass bottle	

### Acetone > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid	Assay (GLC) ..... ≥ 99.8 %	Free acid (as CH <sub>3</sub> COOH) ..... ≤ 20 mg/kg	Refractive index at 20°C ..... 1.357 ÷ 1.361
Identification ..... Positive	Water ..... ≤ 0.05 %	GC-ECD (Lindane standard) ..... ≤ 3 ng/l	
Colour ..... ≤ 10 hazen	Not volatile residue ..... ≤ 2 mg/kg	GC-NPD (Ethylparathion standard) .. ≤ 3 ng/l	

Code	Size	Packaging	Notes
400991	1 l	Glass bottle	
400992000	2.5 l	Glass bottle	

### Acetone > RS - SPECTROSOL - For optical spectroscopy

RS

Description ..... Clear liquid	Boiling point..... 55.8 ÷ 56.3 ° C	Assay (GLC) ..... ≥ 99.9 %	at 335 nm ..... ≥ 60 %
Colour (APHA) ..... ≤ 10	Water (K.F.) ..... ≤ 500 ppm	<b>Fluorescence</b>	at 340 nm ..... ≥ 85 %
Identification ..... Positive	Residue on evaporation ..... ≤ 5 ppm	at 365 nm ..... ≤ 2 ppb	at 345 nm ..... ≥ 95 %
Density at 20° C ..... 0.790 ÷ 0.792	Acidity ..... ≤ 0.0005 meq/g	<b>U.V. Transmittance</b>	at 350 nm ..... ≥ 98 %
Refractive index at 20°C. 1.3581 ÷ 1.3601	Alcalinity ..... ≤ 0.0002 meq/g	at 330 nm ..... ≥ 16 %	

Code	Size	Packaging	Notes
401034	1 l	Glass bottle	
401032	2.5 l	Glass bottle	

### Acetone > RS - Anhydrous - For analysis

RS

Clear, colourless liq. appearance ..... Conform	Non volatile residue ..... ≤ 10 mg/Kg	Diacetyl alcohol ..... ≤ 500 mg/Kg	2-Propanol ..... ≤ 500 mg/Kg
Refractive index at 20°C ..... 1.357 - 1.361	Assay (GC) ..... ≥ 99.8 %	Benzene ..... ≤ 2 mg/Kg	
Density d <sub>20</sub> /20 ..... 0.790 - 0.793	Colour ..... ≤ 10 Hazen	Methanol ..... ≤ 500 mg/Kg	
Water content (K.F.) ..... ≤ 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH) ..... ≤ 20 mg/Kg	Ethanol ..... ≤ 100 mg/Kg	

Code	Size	Packaging	Notes
P0051010	200 ml	Bottle with septum	
P0051016	1 l	Glass bottle	



## Acetone > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527651	1 l	Plastic bottle	
527650	2.5 l	Glass bottle	
527655	5 l	Glass bottle	

Particles control < 250 particles 0.5 µm/ml

For specifications, contact our customer service for a certificate of analysis

## Acetone > RS - RSE - For electronic use

RS

Description .....	Clear liquid	Methyl alcohol.....	≤500 ppm	Bi .....	≤0.02 ppm	Na.....	≤0.2 ppm
Colour (APHA) .....	≤10	Aldehyde .....	≤10 ppm	Ca.....	≤0.1 ppm	Ni.....	≤0.01 ppm
Identification .....	Positive	Chloride.....	≤0.1 ppm	Cd.....	≤0.005 ppm	Pb.....	≤0.01 ppm
Water miscibility.....	Conform	Phosphate .....	≤0.1 ppm	Co.....	≤0.005 ppm	Pt.....	≤0.02 ppm
Assay (GLC) .....	≥99.8 %	Heavy metals (Pb).....	≤0.2 ppm	Cr.....	≤0.01 ppm	Sb.....	≤0.01 ppm
Resistivity .....	≥5 Mohm.cm	Sulphate.....	≤0.5 ppm	Cu.....	≤0.01 ppm	Sn.....	≤0.02 ppm
Density at 20° C .....	0.790 ÷ 0.792	Subst. reducing KMnO4.....	≤2 ppm	Fe.....	≤0.05 ppm	Sr.....	≤0.02 ppm
Boiling point.....	55.8 ÷ 56.3 °	Ag.....	≤0.02 ppm	Ga.....	≤0.02 ppm	Ti.....	≤0.05 ppm
Water (K.F.).....	≤0.2 %	Al.....	≤0.05 ppm	In.....	≤0.02 ppm	Tl.....	≤0.05 ppm
Residue on evaporation .....	≤5 ppm	As.....	≤0.01 ppm	K.....	≤0.1 ppm	V.....	≤0.05 ppm
Acidity (formic acid).....	≤15 ppm	Au.....	≤0.05 ppm	Li.....	≤0.02 ppm	Zn.....	≤0.01 ppm
Alcalinity (NH3).....	≤2 ppm	B.....	≤0.01 ppm	Mg.....	≤0.1 ppm	Zr.....	≤0.05 ppm
Ethyl alcohol .....	≤100 ppm	Ba.....	≤0.1 ppm	Mn.....	≤0.01 ppm		
Isopropyl alcohol .....	≤500 ppm	Be.....	≤0.02 ppm	Mo.....	≤0.05 ppm		

Code	Size	Packaging	Notes
401051	1 l	Glass bottle	
401058	2.5 l	Glass bottle	
401054	5 l	Plastic tank	
401055	5 l	Metal tank	
401052	22 kg	Metal drum	

## Acetone > RS - MOS For electronic use

RS

Description .....	Clear liquid	Methyl alcohol.....	≤500 ppm	Bi .....	≤0.02 ppm	Na.....	≤0.2 ppm
Colour (APHA) .....	≤10	Aldehyde .....	≤10 ppm	Ca.....	≤0.1 ppm	Ni.....	≤0.01 ppm
Identification .....	Positive	Chloride.....	≤0.1 ppm	Cd.....	≤0.005 ppm	Pb.....	≤0.01 ppm
Water miscibility.....	Conform	Phosphate .....	≤0.1 ppm	Co.....	≤0.005 ppm	Pt.....	≤0.02 ppm
Assay (GLC) .....	≥99.8 %	Heavy metals (Pb).....	≤0.2 ppm	Cr.....	≤0.01 ppm	Sb.....	≤0.01 ppm
Resistivity .....	≥5 Mohm.cm	Sulphate.....	≤0.5 ppm	Cu.....	≤0.01 ppm	Sn.....	≤0.02 ppm
Density at 20° C .....	0.790 ÷ 0.792	Subst. reducing KMnO4.....	≤2 ppm	Fe.....	≤0.05 ppm	Sr.....	≤0.02 ppm
Boiling point.....	55.8 ÷ 56.3 °	Ag.....	≤0.02 ppm	Ga.....	≤0.02 ppm	Ti.....	≤0.05 ppm
Water (K.F.).....	≤0.2 %	Al.....	≤0.05 ppm	In.....	≤0.02 ppm	Tl.....	≤0.05 ppm
Residue on evaporation .....	≤5 ppm	As.....	≤0.01 ppm	K.....	≤0.1 ppm	V.....	≤0.05 ppm
Acidity (formic acid).....	≤15 ppm	Au.....	≤0.05 ppm	Li.....	≤0.02 ppm	Zn.....	≤0.01 ppm
Alcalinity (NH3).....	≤2 ppm	B.....	≤0.01 ppm	Mg.....	≤0.1 ppm	Zr.....	≤0.05 ppm
Ethyl alcohol .....	≤100 ppm	Ba.....	≤0.1 ppm	Mn.....	≤0.01 ppm		
Isopropyl alcohol .....	≤500 ppm	Be.....	≤0.02 ppm	Mo.....	≤0.05 ppm		

Code	Size	Packaging	Notes
401042	1 l	Glass bottle	
401041	2.5 l	Glass bottle	

## Acetone > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000100	1 l	Glass bottle	Buffered acetone solution Ref Ph.Eur 4000100

## Acetone > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description .....	Clear liquid	Acidity .....	≤0.0003 meq/g	B .....	≤0.02 ppm	Mn .....	≤0.02 ppm
Colour (APHA) .....	≤10	Alcalinity .....	≤0.0006 meq/g	Ba .....	≤0.1 ppm	Ni .....	≤0.01 ppm
Identification (I.R.) .....	Conform	Ethyl alcohol .....	≤100 ppm	Ca .....	≤0.5 ppm	Pb .....	≤0.01 ppm
Water solubility .....	Conform	Isopropyl alcohol .....	≤500 ppm	Cd .....	≤0.05 ppm	Sn .....	≤0.1 ppm
Density at 20° C .....	0.790 ÷ 0.792	Methyl alcohol .....	≤500 ppm	Co .....	≤0.05 ppm	Zn .....	≤0.01 ppm
Refractive index at 20°C .....	1.3581 ÷ 1.3601	Aldehyde .....	≤10 ppm	Cr .....	≤0.02 ppm	Assay (GLC) .....	≥99.8 %
Boiling point .....	55.8 ÷ 56.3 °C	Heavy metals (Pb) .....	≤0.2 ppm	Cu .....	≤0.01 ppm	Related substances (GLC) .....	Conform
Water (K.F.) .....	≤0.2 %	Subst. reducing KMnO4 .....	≤2 ppm	Fe .....	≤0.1 ppm	Benzene .....	≤ 2 ppm
Residue on evaporation .....	≤10 ppm	Al .....	≤0.5 ppm	Mg .....	≤0.02 ppm	Diacetyl alcohol .....	≤ 500 ppm

Code	Size	Packaging	Notes
400961	1 l	Plastic bottle	
400971	1 l	Glass bottle	
400974	2.5 l	Glass bottle	
400962	5 l	Plastic tank	
400963	10 l	Plastic tank	
400978	16 kg	Plastic tank	
400972	22 kg	Metal drum	
400979	160 kg	Metal drum	

## Acetone > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.

**ERBApharm**

Description .....	Clear colourless liquid	Water insoluble substances .....	Conform Ph.Eur.	Reducing substances .....	Conform Ph.Eur.	Density at 25°C .....	≤ 0.789
Identification A .....	Positive	Related substances (GLC) .....	Conform Ph.Eur.	Density at 20°C .....	0.790 ÷ 0.793	Water (GLC) .....	≤ 0.5 %
Identification B .....	Positive	Impurities A,B .....	≤ 0.05 %v/v	Water (K.F.) .....	≤ 3 g/l	Origin (BSE/TSE) .....	Synthesis
Appearance of solution .....	Conform Ph. Eur.	Impurity C .....	≤ 2 ppm (v/v)	Residue on evaporation .....	≤ 40 ppm(p/v)	Residual solvents (Current ICH) .....	Conform
Acidity or alcalinity .....	Conform Ph.Eur.	Other impurities (GC) .....	≤ 0.05 % (v/v)	Assay (GLC) .....	≥ 99 %		

Code	Size	Packaging	Notes
301505	1 l	Glass bottle	
301506	2.5 l	Glass bottle	
301502	5 l	Aluminium can	
301503	5 l	Plastic tank	
301501	16 kg	Plastic tank	
301504	22 kg	Metal drum	
301507	160 kg	Metal drum	

## Acetone > RE - Pure

**RE**

Description .....	Clear liquid	Density at 20°C .....	0.788÷0.792	Water (K.F.) .....	≤0.25 % m/m	Assay (GLC) .....	≥99.8 % (GLC)
Colour .....	≤10 APHA	Refractive index at 20°C .....	1.3601÷1.3581	Residue on evaporation .....	≤15 ppm	Acidity (acetic acid) .....	≤ 200 ppm
Identity (IR) .....	Positive	Boiling point .....	55.7 ÷ 56.7 °C	Water miscibility .....	Complete	Diacetyl alcohol .....	≤ 500 ppm

Code	Size	Packaging	Notes
508200	1 l	Glass bottle	
508201	2.5 l	Glass bottle	
528203	5 l	Plastic tank	
528206	10 l	Plastic tank	
528201	25 l	Plastic tank	
528204	200 l	Metal drum	

**Acetone-d6**

Acetone-d6 • Acétone-d6 • Acetona-d6

Synonym:  
Hexadeuteroacetone

CD<sub>3</sub>COCD<sub>3</sub>  
Molecular Weight: 64,12  
CAS: 666-52-4  
EEC-N: 211-563-9

**Classification transport**  
ONU: 1090  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336-HEU066  
P210-P241-P280-P303+P361+P353-P403+P235-P501a

**Acetone-d6 > RS - For NMR - min 99.8%**

RS

Code	Size	Packaging	Notes
P5049	10 x 0.75 ml	Glass ampoule	
P5044A	10 ml	Glass ampoule	
P5044S	5 x 10 ml	Bottle with septum	
P5045	25 ml	Glass bottle	
P5046	100 ml	Glass bottle	

**Acetone-d6 > RS - For NMR - min 99.96%**

RS

Code	Size	Packaging	Notes
P5060	10 x 0.6 ml	Glass ampoule	

**Acetonitrile**

Acetonitrile • Acétonitrile • Acetonitrilo

Synonym:  
Methyl cyanide

CH<sub>3</sub>CN  
Molecular Weight: 41,05  
CAS: 75-05-8  
EEC-N: 200-835-2

**Classification transport**  
ONU: 1648  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H312-H332-H319  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

**Acetonitrile > RS - For UHPLC-MS**

RS

Code	Size	Packaging	Notes
412041	1 l	Glass bottle	
412042	2.5 l	Glass bottle	

**Acetonitrile > RS - For LC/MS**

RS

Code	Size	Packaging	Notes
412341	1 l	Glass bottle	
412342	2.5 l	Glass bottle	

**Filtered through 0.1 µm membrane.**

## Acetonitrile > RS - For HPLC - GOLD - Ultragradient grade

**RS**

Description .....	Clear liquid	Distillation range .....	80.5 ÷ 82.5 °C	At 450 nm .....	≤ 0.5 ppb
Colour (APHA) .....	≤ 10	Water (K.F.) .....	≤ 100 ppm	<b>Absorbance</b>	
Identification .....	Positive	Residue on evaporation .....	≤ 2 ppm	At 190 nm .....	≤ 0.6 AU
Miscb. with Acetone .....	Conform	Acidity .....	≤ 0.0003 meq/g	At 200 nm .....	≤ 0.03 AU
Water miscibility .....	Conform	Alcalinity .....	≤ 0.0002 meq/g	At 220 nm .....	≤ 0.007 AU
Miscibility in ether .....	Conform	Assay (GLC) .....	≥ 99.9 %	<b>Transmittance</b>	
Miscibility in methanol .....	Conform	<b>Fluorescence (quinine)</b>		At 195 nm .....	≥ 80 %
Density at 20°C .....	0.781 ÷ 0.785	At 254 nm .....	≤ 1 ppb	At 228 nm .....	≥ 99 %
Refractive index at 20°C .....	1.342 ÷ 1.344	At 365 nm .....	≤ 0.5 ppb	From 230 to 420 nm .....	≥ 99 %

**Functionality for HPLC**

At 210 nm .....	≤ 1 mA.U.
drift at 210 nm .....	≤ 12 mA.U.
HPLC Gradient .....	Passed test
UV cut off .....	≤ 190 nm

Code	Size	Packaging	Notes
412371000	1 l	Glass bottle	
412372000	2.5 l	Glass bottle	
412374	4 l	Glass bottle	

**Filtered through 0.1 µm membrane**

## Acetonitrile > RS - For HPLC PLUS Gradient grade - ACS - Reag.Ph.Eur. - Reag.USP

**RS**

Description .....	Clear colourless liquid	Titration base .....	≤ 0.0002 meq/g	at 365 nm .....	≤ 0.5 ppb
Colour (APHA) .....	≤ 10	Residue on evaporation .....	≤ 0.0002 %	at 450 nm .....	≤ 0.5 ppb
Identification .....	Positive	Water (K.F.) .....	≤ 0.01 %	<b>U.V. Transmittance</b>	
Density at 20° C .....	0.781 ÷ 0.785	Litmus paper test .....	Conform	at 195 nm .....	≥ 79 %
Refractive index at 20°C .....	1.3420 ÷ 1.3440	Assay (GLC) .....	≥ 99.9 %	at 200 nm .....	≥ 90 %
Distillation range 95% distils between 80 ÷ 82 °C		<b>Fluorescence</b>		at 210 nm .....	≥ 95 %
Titration acid .....	≤ 0.0008 meq/g	at 254 nm .....	≤ 1 ppb	at 220 nm .....	≥ 98 %

From 240 to 420 nm .....

**Absorbance**

At 190 nm .....	≤ 1.00 AU
Absorbance ACS .....	Pass test
Gradient elution ACS .....	pass test

**Functionality for HPLC**

Code	Size	Packaging	Notes
412393	1 l	Glass bottle PVC coated	
412391000	1 l	Glass bottle	
412392000	2.5 l	Glass bottle	
412395	5 l	Aluminium can	

**Filtered through 0.2 µm membrane**

## Acetonitrile > RS - For HPLC - Isocratic Grade

**RS**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3420 ÷ 1.3440	<b>U.V. Transmittance</b>	
Identification .....	Positive	Boiling point .....	81.1 ÷ 82.1 °C	at 197 nm .....	≥ 82 %
Water content (K.F.) .....	≤ 0.03 % m/m	Acidity or alkalinity .....	≤ 0.0008 meq/g	at 200 nm .....	≥ 85 %
Density at 20° C .....	0.781 ÷ 0.785	Residue on evaporation .....	≤ 2 ppm	at 205 nm .....	≥ 89 %
Iodometric test .....	Conform	Assay (GLC) .....	≥ 99.9 %	at 210 nm .....	≥ 92 %

at 220 nm .....

at 230 nm .....

at 240 nm .....

Fluorescence quinine 254 nm .....

Code	Size	Packaging	Notes
412411000	1 l	Glass bottle	
412412000	2.5 l	Glass bottle	

**Filtered through 0.2 µm membrane**

## Acetonitrile > RS - For HPLC 230

**RS**

Appearance .....	Clear colourless liquid	Boiling point .....	80.0 - 82.5 °C	Free acid (as CH <sub>3</sub> COOH) .....	≤ 20 mg/Kg
Refractive index at 20°C .....	1.342 - 1.346	Colour .....	≤ 10 Hazen	Assay (GC) .....	≥ 99.9 %
Density d20/20 .....	0.780 - 0.785	Non volatile residue .....	≤ 5 mg/Kg	UV transmittance at 230 nm .....	≥ 80 %

UV transmittance at 250 nm .....

Code	Size	Packaging	Notes
P00637S16	1 l	Glass bottle	
P00637S21	2.5 l	Glass bottle	

## Acetonitrile > RS - For preparative HPLC

**RS**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3420 ÷ 1.3440	Residue on evaporation .....	≤ 5 ppm
Identification .....	Positive	Boiling point .....	81.1 ÷ 82.1 °C	Assay (GLC) .....	≥ 99.9 %
Colour .....	≤ 10 APHA	Acidity or alkalinity .....	≤ 0.0008 meq/g	<b>U.V. Transmittance</b>	
Density at 20° C .....	0.781 ÷ 0.785	Water (K.F.) .....	≤ 300 ppm	at 230 nm .....	≥ 50 %

at 250 nm .....

Code	Size	Packaging	Notes
412409	2.5 l	Glass bottle	
412407	23 l	Metal drum	

## Acetonitrile > RS - PESTIPUR - For pesticide analysis

**RS**

Description .....	Clear liquid	Identification .....	Positive	Acidity (acetic acid).....	≤ 20 ppm	GC-ECD (Lindano) .....	≤ 3 ng/l
Colour .....	≤ 10 hazen	Water .....	≤ 0.03 %	Not volatile residue.....	≤ 5 ppm	Assay (GLC) .....	≥ 99.9 %

Code	Size	Packaging	Notes
401241	1 l	Glass bottle	
401242	2.5 l	Glass bottle	

## Acetonitrile > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

**RS**

Description .....	Clear colourless liquid	Acidity or alkalinity.....	≤ 0.0008 meq/g	<b>Fluorescence</b>	at 220 nm .....	≥ 96 %	
Density at 20° C .....	0.781 ÷ 0.785	Water (K.F.) .....	≤ 300 ppm	at 254 nm .....	≤ 1 ppb	Colour .....	≤ 10 APHA
Refractive index at 20°C.....	1.3410 ÷ 1.3450	Residue on evaporation .....	≤ 5 ppm	<b>U.V. Transmittance</b>	at 200 nm .....	≥ 98 %	
Litmus paper test .....	Conform	Assay (GLC) .....	≥ 99.9 %	at 210 nm .....	≥ 94 %	Identification .....	Positive
Distillation range 95% distils between .....	80 - 82 °C					UV Absorbance from 255 nm to 420 nm.....	≤ 0.01 AU

Code	Size	Packaging	Notes
401216	1 l	Glass bottle	
401212	2.5 l	Glass bottle	

## Acetonitrile > RS - Anhydrous - For analysis

**RS**

Appearance .....	Clear colourless liquid	Water content (K.F.).....	≤ 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH).....	≤ 20 mg/Kg	Free alkali.....	≤ 0.0003 meq/g
Refractive index at 20°C.....	1.342 - 1.346	Non volatile residue.....	≤ 10 mg/Kg	Density d <sub>20/20</sub> .....	0.780 - 0.785	Propionitrile .....	≤ 300 mg/Kg
Identification (IR).....	Conform	Colour .....	≤ 10 Hazen	Iron (Fe).....	≤ 0.5 mg/Kg		
Boiling point.....	80.0 - 82.5 °C	Assay (GC).....	≥ 99.9 %	Copper (Cu) .....	≤ 0.5 mg/Kg		

Code	Size	Packaging	Notes
P0061010	200 ml	Bottle with septum	
P00610S10	200 ml	Bottle with septum	Water content < 50 ppm
P00610T10	200 ml	Bottle with septum	On molecular sieves 3A
P0061016	1 l	Glass bottle	
P00610S16	1 l	Glass bottle	Water content < 50 ppm
P0061021	2.5 l	Glass bottle	
P00610S21	2.5 l	Glass bottle	Water content < 50 ppm

## Acetonitrile > RS - For peptide synthesis

**RS**

Appearance .....	Clear colourless liquid	Density d <sub>20/20</sub> .....	0.780 - 0.785	Water content (K.F.).....	≤ 30 mg/Kg	Assay (GC).....	≥ 99.9 %
Refractive index at 20°C.....	1.342 - 1.346	Boiling point.....	80.0 - 82.5 °C	Colour .....	≤ 10 Hazen	Non volatile residue.....	≤ 5 mg/Kg

Code	Size	Packaging	Notes
P0063510	200 ml	Bottle with septum	
P0063516	1 l	Glass bottle	
P0063521	2.5 l	Glass bottle	

## Acetonitrile > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 500 ppm	K.....	≤ 0.05 ppm	Assay (GLC) .....	≥ 99.8 %
Identification .....	Positive	Residue on evaporation .....	≤ 10 ppm	Mg .....	≤ 0.05 ppm	Colour (APHA) .....	≤ 10
Density at 20° C .....	0.781 ÷ 0.785	Ca.....	≤ 0.05 ppm	Na .....	≤ 1 ppm	Acidity .....	≤ 8 µeq/g
Refractive index at 20°C.....	1.3410 ÷ 1.3450	Cu.....	≤ 0.05 ppm	Pb .....	≤ 0.05 ppm	Alcalinity.....	≤ 0.6 µeq/g
Distillation range 95% distils between .....	80 - 82 °C	Fe .....	≤ 0.2 ppm	Zn .....	≤ 0.5 ppm	Litmus paper test .....	Conform

Code	Size	Packaging	Notes
401183000	1 l	Glass bottle	
401185000	2.5 l	Glass bottle	

## Acetonitrile > RE - Pure

**RE**

Appearance .....	Clear colourless liquid	Colour .....	Colourless	Water content (K.F.).....	≤ 500 mg/Kg	Assay (GC).....	≥ 99.9 %
Refractive index at 20°C.....	1.342 - 1.346	Density d <sub>20/20</sub> .....	0.780 - 0.785	Free acid (as CH <sub>3</sub> COOH).....	≤ 20 mg/Kg		
Identification (IR).....	Conform	Boiling point.....	80.0 - 82.5 °C	Non volatile residue.....	≤ 20 mg/Kg		

Code	Size	Packaging	Notes
P0060228	5 l	Plastic tank	
P0060248	25 l	Metal drum	
P0060268	200 l	Metal drum	



## Acetonitrile + 0.1% v/v formic acid

Acetonitrile + 0.1% v/v acido formico • Acétonitrile + 0.1% v/v d'acide formique • Acetonitrile + 0.1% v/v acido formico

CH<sub>3</sub>CN

Molecular Weight: 41,05

CAS: 75-05-8

### Classification transport

ONU: 1993

Transport Hazard class: 3

Packing group II



### Danger

H225-H302-H312-H332-H319

P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Acetonitrile + 0.1% v/v formic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid

Colour ..... ≤ 10 APHA

Acidity (formic acid) ..... 0.095 ÷ 0.105 %

#### HPLC Gradient

At 254 nm ..... ≤ 50 mAU

#### Transmittance

At 210 nm ..... ≥ 5 %

At 230 nm ..... ≥ 15 %

Assay (CPG) ..... ≥ 99.5 %

#### Test LC-MS TIC (100-2000m/z)

Sensitive Impurities (reserpine) ..... ≤ 50 ppb

#### Metals content

Al ..... ≤ 0.5 ppm

Fe ..... ≤ 0.5 ppm

Ca ..... ≤ 0.5 ppm

Mg ..... ≤ 0.5 ppm

Na ..... ≤ 2 ppm

K ..... ≤ 0.5 ppm

#### Raw material used

Acetonitrile LC-MS(code 412342) ..... Batch number

Formic acid 98-99% (code 405820) . Batch number

Code	Size	Packaging	Notes
412331	1 l	Glass bottle	
412332	2.5 l	Glass bottle	



## Acetonitrile + 0.1% v/v trifluoroacetic acid

Acetonitrile + 0.1% v/v acido trifluoroacetico • Acétonitrile + 0.1% v/v d'acide trifluoroacétique • Acetonitrile + 0.1% v/v acido trifluoroacético

CH<sub>3</sub>CN

Molecular Weight: 41,05

CAS: 75-05-8

### Classification transport

ONU: 1648

Transport Hazard class: 3

Packing group II



### Danger

H225-H312-H332-H319

P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Acetonitrile + 0.1% v/v trifluoroacetic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid

Assay (GC) (without TFA) ..... ≥ 99.9 %

Trifluoroacetic acid content 0.095 - 0.105 % (V/V)

Water (K.F.) ..... ≤ 150 ppm

Residue on evaporation ..... ≤ 2 ppm

#### UV transmittance (1 cm , ref. water)

At 195 nm ..... ≥ 20 %

At 230 nm ..... ≥ 50 %

At 254 nm ..... ≥ 90 %

At 260 nm ..... ≥ 95 %

#### Fluorescence (quinine)

At 365 nm ..... ≤ 0.5 ppb

#### HPLC gradient

Drift at 254 nm ..... ≤ 30 mAU

#### Test LC-MS TIC (50-2000m/z) ES I(+)

Sensitive Impurities (reserpine) ..... ≤ 50 ppb

#### Metals compounds

Al ..... ≤ 30 ppb

Fe ..... ≤ 50 ppb

Na ..... ≤ 50 ppb

Ca ..... ≤ 50 ppb

Mg ..... ≤ 30 ppb

K ..... ≤ 50 ppb

Code	Size	Packaging	Notes
412321	1 l	Glass bottle	
412322	2.5 l	Glass bottle	



## Acetonitrile-d3

Acetonitrile-d3 • Acétonitrile-d3 • Acetonitrilo-d3

Synonym:

Trideuteroacetonitrile

CD<sub>3</sub>CN

Molecular Weight: 44,07

CAS: 2206-26-0

EEC-N: 218-616-5

### Classification transport

ONU: 1648

Transport Hazard class: 3

Packing group II



### Danger

H225-H302-H312-H332-H319

P210-P241-P301+P310-P303+P361+P353-P310-P361-P403+P235-P405-P501a

### Acetonitrile-d3 > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5070	2 x 0.6 ml	Glass ampoule	
P5079	10 x 0.75 ml	Glass ampoule	
P5073A	6 ml	Glass ampoule	



## Acetophenone

Acetofenone • Acétophénone • Acetofenona

Synonym:  
Methyl phenyl ketone

$C_6H_5COCH_3$   
Molecular Weight: 120,15  
CAS: 98-86-2  
EEC-N: 202-708-7



### Warning

H302-H319  
P264-P280i-P305+P351+P338-P330-P337+P313-  
P301+P312a

### Acetophenone > RE - Pure

RE

Description ..... Yellow colourless liquid    Density at 20° C ..... 1.018 ÷ 1.038    Boiling point ..... 200.5 ÷ 203.5 ° C  
Identification ..... Positive    Refractive index at 20°C ..... 1.5283 ÷ 1.5383    Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
301251	1 l	Glass bottle	



## Acetylacetone

2,4-Pentandione • Acetylacétone • 2,4-Pentadiona

Synonym:  
2,4-Pentanedione  
Diacetylmethane

$CH_3COCH_2COCH_3$   
Molecular Weight: 100,12  
CAS: 123-54-6  
EEC-N: 204-634-0

### Classification transport

ONU: 2310  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H302-H311+H331  
P210-P241-P264-P303+P361+P353-P304+P340-  
P403+P235

### Acetylacetone > RPE - For analysis

RPE

Description ..... Clear liquid    Water miscibility ..... Conform    Refractive index at 20°C. 1.4510 ÷ 1.4540    Residue on evaporation ..... ≤100 ppm  
Identification (I.R.) ..... Conform    Density at 20° C ..... 0.971 ÷ 0.981    Water (K.F.) ..... ≤0.1 %    Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
400305	100 ml	Glass bottle	
400307	1 l	Glass bottle	



## n-Acetylcysteine

N-Acetil-L-cisteina • n-Acétylcystéine • n-Acetil-L-cisteína

Synonym:  
LNAC

$HSCH_2CH(NHCOCH_3)COOH$   
Molecular Weight: 163,19  
CAS: 616-91-1  
EEC-N: 210-498-3

### n-Acetylcysteine > RPE - For analysis

RPE

Description ..... White crystals    Identification ..... Positive    Ash ..... < 0.5 %    Assay (acidimetric) ..... > 97.5 %

Code	Size	Packaging	Notes
400522	100 g	Glass bottle	



## p-Acetylphenetidine

p-Acetilfenetidina • p-Acétylphénétidine • p-Acetilfenetidina

Synonym:  
Phenacetin  
Acetophenelide

$C_2H_5OC_6H_4NHCOCH_3$   
Molecular Weight: 179,22  
CAS: 62-44-2  
EEC-N: 200-533-0



### Warning

H302-H312-H332  
P264-P271-P261-P280h-P304+P340-P330

### p-Acetylphenetidine > RE - Pure

RE

Description ..... White crystalline powder    Identification ..... Positive    Melting point ..... 133 ÷ 138 ° C    Assay (HPLC) ..... > 96.0 %

Code	Size	Packaging	Notes
300857	1 kg	Plastic bottle	



## 1-Acetyl-2-phenylhydrazine

Acetil-2-fenilidrazina • Acétyl-2-phenylhydrazine • Acetil-2-fenilhidracina

$C_8H_9NHNHCOCH_3$   
Molecular Weight: 150,18  
CAS: 114-83-0  
EEC-N: 204-055-3



### Danger

H301-H312-H332  
P264-P271-P280-P304+P340-P301+P310a-P312a

### 1-Acetyl-2-phenylhydrazine > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Melting point ..... 128 ÷ 132 °C Assay ..... ≥ 97.5 %

Code	Size	Packaging	Notes
400672	25 g	Glass bottle	

Acid Red 51 ▶ Erythrosin extra B

Acid Red 87 ▶ Eosin Y

Acid Red 91 ▶ Eosin B

Acid Violet 19 ▶ Fuchsin acid

Acid Yellow 73 ▶ Fluorescein



## Acridine orange

Arancio acridina • Orange acridine • Anaranjado de acridina

Synonym:  
3,6-Bis(dimethylamino)acridine hydrochloride

$C_{17}H_{20}ClN_3$   
Molecular Weight: 301,82  
CAS: 65-61-2  
EEC-N: 200-614-0

### Acridine orange > RS - For microscopy - C.I. 46005

RS

Description ..... Orange powder Identification ..... Positive

Code	Size	Packaging	Notes
423461	25 g	Plastic jar	



## ADF Solution

Soluzione ADF • Solution ADF • Solución ADF

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group III



### Danger

H315-H318  
P264-P280-P305+P351+P338-P332+P313-  
P302+P352a-P321

### ADF Solution > RPE - For analysis

RPE

Density at 20°C ..... 1.020 ÷ 1.040

Code	Size	Packaging	Notes
526625	2.5 l	Glass bottle	
526623	10 l	Plastic tank	

Composition : Trimethylcethylammonium bromure : 20 g Sulfuric acid 1N: QSP 1 L according to NF V18-122



**Adipic acid**

Acido adipico • Acide adipique • Acido adipico

Synonym:  
Hexanedioic acid

HOOC(CH<sub>2</sub>)<sub>4</sub>COOH  
Molecular Weight: 146,14  
CAS: 124-04-9  
EEC-N: 204-673-3

**Warning**

H319  
P264-P280i-P305+P351+P338-P337+P313

**Adipic acid > RPE - For analysis****RPE**

Description ..... White crystalline powder    Solution colour ..... ≤ 5 APHA    Water ..... ≤ 0.2 %    HNO<sub>3</sub> ..... ≤ 4 ppm  
Identification ..... Positive    Melting point ..... 151 ÷ 153 °C    Residue on ignition ..... ≤ 0.0002 %    Assay (acidimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
401785	250 g	Plastic bottle	
401787	2.5 kg	Plastic bottle	

**Albumin from eggs powder**

Albumina d'uovo polvere • Albumine d'oeuf poudre • Albúmina de huevo polvo

CAS: 9006-59-1  
EEC-N: 232-692-7

**Albumin from eggs powder > RE - Pure****RE**

Description ..... White powder yellowish    Identification ..... Positive    pH ..... 6.0 ÷ 8.0    Water (K.F) ..... ≤ 8.0 %

Code	Size	Packaging	Notes
413671	1 kg	Plastic jar	
413672	5 kg	Plastic jar	

**Albumin from eggs, dried**

Albumina d'uovo secca • Albumine d'oeuf sèche • Albúmina de huevo desecada

CAS: 9006-59-1  
EEC-N: 232-692-7

**Albumin from eggs, dried > RS - For biochemistry****RS**

Description ..... White powder yellowish    Identification ..... Positive

Code	Size	Packaging	Notes
413654	100 g	Plastic bottle	
413656	500 g	Plastic bottle	

**Alcian Blue 8GS 1%**

Blu alcian 8GS 1% • Bleu alcian 8GS 1% • Azul de alcian 8GS 1%

Synonym:  
Ingrain Blue 1

C<sub>56</sub>H<sub>68</sub>N<sub>16</sub>CuS<sub>4</sub>Cl<sub>4</sub>  
Molecular Weight: 1298,88  
CAS: 75881-23-1

**Classification transport**

ONU: 3264  
Transport Hazard class: 8  
Packing group III

**Warning**

H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

**Alcian Blue 8GS 1% > RS - For microscopy****RS**

Description ..... Blue clear liquid    Identification ..... Positive    Assorbanza a 610 nm ..... 0.14 ÷ 0.18 AU

Code	Size	Packaging	Notes
428551	250 ml	Glass bottle	

**Alcian blue 8GX**

Blu alcian 8GX • Bleu alcian 8GX • Azul de alcian 8GX

Synonym:  
Ingrain Blue 1

$C_{56}H_{68}N_{16}CuS_4Cl_4$   
Molecular Weight: 1298.88  
CAS: 33864-99-2  
EEC-N: 251-705-7

**Alcian blue 8GX > RS - For microscopy - C.I. 74240****RS**

Description ..... Violet crystalline powder Identification ..... Positive

Code	Size	Packaging	Notes
428561	25 g	Glass bottle	

**Dye for histochemistry****Alizarin**

Alizarina • Alizarine • Alizarina

Synonym:  
1,2-Dihydroxyanthraquinone  
Mordant Red 11

$C_{14}H_8O_4$   
Molecular Weight: 240,21  
CAS: 72-48-0  
EEC-N: 200-782-5

**Warning**

H302  
P264-P270-P330-P301+P312a-P501a

**Alizarin > RPE - For analysis - C.I. 58000****RPE**

Description ..... Orange red powder Loss on drying ..... ≤2 % Assay ..... ≥96.0 %  
Identification ..... Positive Aluminium sensitivity ..... ≥0.1 µg/ml

Code	Size	Packaging	Notes
415892	25 g	Glass bottle	

**Dye for microscopy. Indicator acid - base (pH 5.8 to 7.2 - 11.0 to 13.0)****Alizarin red**

Rosso alizarina • Rouge Alizarine • Rojo Alizarina

Synonym:  
Alizarin sulfonic acid sodium salt  
3,4-Dihydroxy-9,10-dioxo-2-anthracenesulfonic  
acid sodium salt

$C_{14}H_7NaO_7S$   
Molecular Weight: 342,26  
CAS: 130-22-3  
EEC-N: 204-981-8

**Alizarin red > RPE - For analysis - C.I. 58005****RPE**

Description ..... Brown orange powder Identification ..... Positive Colour change ..... yellow violet pH range ..... 5.0 - 6.6

Code	Size	Packaging	Notes
416002	25 g	Glass bottle	

**Alizarin saturated solution in ethanol**

Alizarina soluzione satura in alcol etilico • Alizarine solution saturée dans l'éthanol • Alizarina solución saturada en alcohol etilico

Synonym:  
1,2-Dihydroxyanthraquinone  
Mordant Red 11

$C_{14}H_8O_4$   
Molecular Weight: 240,21  
CAS: 72-48-0

**Classification transport**

ONU: 1170  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

**Alizarin saturated solution in ethanol > RPE - For analysis****RPE**

Description ..... Orange brown liquid Identification ..... Positive

Code	Size	Packaging	Notes
E415932	250 ml	Bottle	

**Indicator acid - base. Indicator for absorption and complexometry. Saturated alcoholic solution**

**Alizarin yellow R**

Giallo alizarina R • Jaune d'alizarine R • Amarillo de alizarina R

Synonym:  
Mordant Orange 1  
5-(4-Nitrophenylazo)salicylic acidC13H9N3O5  
Molecular Weight: 287,23  
CAS: 2243-76-7  
EEC-N: 218-818-3**Warning**H302-H319  
P264-P280-P305+P351+P338-P330-P337+P313-  
P301+P312a**Alizarin yellow R > RPE - For analysis - C.I. 14030****RPE**Description ..... Brown crystalline powder    Loss on drying ..... ≤15 %    Colour change ..... yellow-orange  
Identification ..... Positive    Residue on ignition ..... 18.0 ÷ 28.0 %    E (1% ÷ 1 cm) a 492 nm ..... 700 ÷ 1000

Code	Size	Packaging	Notes
453451	10 g	Glass bottle	
453452	25 g	Glass bottle	

**Alkali blue 6B**

Blu alcali 6B • Bleu alcalin 6B • Azul de alcali 6B

Synonym:  
Acid blue 10C37H29N3O3S  
Molecular Weight: 595,72  
CAS: 1324-76-1  
EEC-N: 215-385-2**Alkali blue 6B > RS - For microscopy - C.I. 42765****RS**

Description ..... Brown violet powder    Identification ..... Positive

Code	Size	Packaging	Notes
428532	25 g	Glass bottle	

**Dye for cytology****Alkali Blue 6B solution 2% in ethanol**

Blu alcali 6B soluzione 2% in alcole etilico • Bleu alcalin 6B solution 2% dans l'éthanol • Azul de alcali 6B solución 2% en alcohol etílico

Synonym:  
Acid blue 10C32H28N3NaO4S  
Molecular Weight: 613,72  
CAS: 1324-76-1**Classification transport**ONU: 1170  
Transport Hazard class: 3  
Packing group II**Danger**H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235**Alkali Blue 6B solution 2% in ethanol > RPE - For analysis****RPE**

Description ..... Blue liquid    Identification ..... Positive

Code	Size	Packaging	Notes
E428541	250 ml	Bottle	

**Alkylbenzyltrimethylammonium chloride ▶ Benzalkonium chloride****β-Alanine**

β-Alanina • β-Alanine • β-Alanina

Synonym:  
3-Aminopropionic acidNH2CH2CH2COOH  
Molecular Weight: 89,09  
CAS: 107-95-9  
EEC-N: 203-536-5**β-Alanine > RPE - For analysis****RPE**Description ..... White crystalline powder    Ammonium ..... ≤ 1000 ppm    Residue on ignition ..... ≤ 0.2 %    Assay (non-aqueous medium) ..... ≥ 98.5 %  
Identification ..... Positive    Chloride ..... ≤ 400 ppm    Sulphate ..... ≤ 480 ppm  
Loss on drying ..... ≤ 0.5 %    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 30 ppm

Code	Size	Packaging	Notes
413603	50 g	Glass bottle	



## Allylthiourea

Alliltiourea • Allylthiourée • Aliltiourea

Synonym:  
1-Allyl-2-thiourea  
Thiosinamine

CH<sub>2</sub>:CHCH<sub>2</sub>NHCSNH<sub>2</sub>  
Molecular Weight: 116,19  
CAS: 109-57-9  
EEC-N: 203-683-5

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301  
P264-P270-P301+P310a-P330-P321-P405

### Allylthiourea > RPE - For analysis

**RPE**

Description .....White crystalline powder    Melting point..... 70 ÷ 78 ° C    Assay (ex nitrogen) ..... 97.5 ÷ 102.5 %  
Identification ..... Positive    Perdita essiccamento (50°C)..... ≤ 1.5 %

Code	Size	Packaging	Notes
416281	25 g	Glass bottle	
416283	100 g	Glass bottle	

## Almond oil ▶ Oil refined of almonds

## Alumina ▶ Aluminum oxide



## Alumina white

Allumina bianca • Alumine blanche • Alúmina blanca

Synonym:  
Alumina

Al<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Alumina white > RS - For metallography (Medium metals)

**RS**

Description .....White suspension    Identification ..... Positive

Code	Size	Packaging	Notes
416531	120 g	Plastic bottle	



## Aluminum standard solution

Alluminio standard soluzione • Aluminium standard solution • Aluminum, solución patrón

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Aluminum standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

**RS**

Code	Size	Packaging	Notes
615000200	100 ml	Plastic bottle	A 200 ppm solution Ref Ph.Eur 5000200
615000201	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000201
615000202	100 ml	Plastic bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5000202
615000203	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000203

### Aluminum standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505307	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505308	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505309	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Aluminum standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503411	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503415	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503413	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503417	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Aluminum standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
504190	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497405	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497401	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504186	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Aluminum standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
416581		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package



## Aluminum, powder

Alluminio, polvere • Aluminium, poudre • Aluminio, polvo

Al

Molecular Weight: 26,98

CAS: 7429-90-5

EEC-N: 231-072-3

### Classification transport

ONU: 1309

Transport Hazard class: 4.1

Packing group II



### Danger

H250-H261

P210-P223-P222-P231+P232-P280a-P422a

## Aluminum, powder > RPE - For analysis

RPE

Description ..... Grey powder Cu..... ≤ 0.03 % Zn..... ≤ 0.08 %  
 Identification ..... Positive Fe..... ≤ 0.6 % Assay (complexometric)..... ≥ 95 %

Code	Size	Packaging	Notes
416817	1 kg	Metal bucket	
416815	25 kg	Plastic bucket	



## Aluminum ammonium sulfate dodecahydrate

Alluminio amonio solfato dodecaidrato • Aluminum ammonium sulfate dodécahydraté •  
 Aluminio y amonio sulfato dodecahidrato

Synonym:

Sulfate dodecahydrate

$AlNH_4(SO_4)_2 \cdot 12H_2O$

Molecular Weight: 453,34

CAS: 7784-26-1



### Warning

H315-H319-H335

P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

## Aluminum ammonium sulfate dodecahydrate > RPE - For analysis

RPE

Description ..... White crystals Identification ..... Positive Assay (complexometric)..... ≥ 98.5 % Loss on drying (300°C)..... 45 ÷ 48 %

Code	Size	Packaging	Notes
416893	100 g	Plastic bottle	
416895	500 g	Plastic bottle	
416897	1 kg	Plastic bottle	
416892	25 kg	Plastic bucket	

## Aluminum ammonium sulfate dodecahydrate > RE - Pure

**RE**

Description . White semitransparent crystals Chloride ..... ≤ 50 ppm Heavy metals (Pb) ..... ≤ 100 ppm Assay (complexometric) ..... ≥ 97 %  
 Identification ..... Positive Water-insoluble matter ..... ≤ 500 ppm Fe ..... ≤ 30 ppm

Code	Size	Packaging	Notes
311009	5 kg	Plastic jar	
311002	25 kg	Plastic bucket	
311004	50 kg	Plastic bucket	



## Aluminum chloride anhydrous

Alluminio cloruro anidro • Aluminium chlorure anhydre • Aluminio cloruro anhidro

AlCl<sub>3</sub>  
 Molecular Weight: 133,34  
 CAS: 7446-70-0  
 EEC-N: 231-208-1

**Classification transport**  
 ONU: 1726  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H314  
 P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Aluminum chloride anhydrous > RE - Pure

**RE**

Description ..... Yellowish powder Heavy metals (Pb) ..... ≤ 75 ppm Assay (complexometric) ..... ≥ 99.0 %  
 Identification ..... Positive Fe ..... ≤ 100 ppm

Code	Size	Packaging	Notes
416996	500 g	Glass bottle	



## Aluminum chloride hexahydrate

Alluminio cloruro esaidrato • Aluminium chlorure hexahydraté • Aluminio cloruro hexahidratato

AlCl<sub>3</sub>·6H<sub>2</sub>O  
 Molecular Weight: 241,44  
 CAS: 7784-13-6  
 EEC-N: 231-208-1



**Warning**  
 H302-H315-H319  
 P264-P280g-P305+P351+P338-P330-P332+P313-P337+P313

## Aluminum chloride hexahydrate > RPE - For analysis - Reag. Ph. Eur.

**RPE**

Description ..... White crystals Cd ..... ≤ 50 ppm Assay (complexometric) ..... ≥ 99 % Na ..... ≤ 0.05 %  
 Identification ..... Positive Cu ..... ≤ 50 ppm Ca ..... ≤ 100 ppm Ni ..... ≤ 50 ppm  
 pH sol. 5% at 25° C ..... 2.5 ÷ 3.5 Fe ..... ≤ 50 ppm Co ..... ≤ 50 ppm Pb ..... ≤ 50 ppm  
 Sulphate ..... ≤ 50 ppm Zn ..... ≤ 50 ppm K ..... ≤ 100 ppm

Code	Size	Packaging	Notes
416942	100 g	Plastic bottle	
416943	500 g	Plastic bottle	
416947	1 kg	Plastic bottle	
416949	5 kg	Plastic jar	
416945	25 kg	Plastic bucket	

## Aluminum chloride hexahydrate > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP

**ERBapharm**

Description ..... white or slightly yellow, crystalline powder Identification B ..... Positive Alkali and alkaline-earth metals ..... ≤ 0.5 % Fe ..... ≤ 10 ppm  
 Appearance of solution ..... Conform Ph. Eur. Sulfate ..... ≤ 100 ppm Assay (complexometric) ..... 95.0 ÷ 101.0 %  
 Identification A ..... Positive Water (K.F.) ..... 42.0 ÷ 48.0 % Heavy metals (Pb) ..... ≤ 20 ppm

Code	Size	Packaging	Notes
311257	1 kg	Plastic bottle	
311252	5 kg	Plastic jar	
311254	50 kg	Fibre drum	



## Aluminum hydroxide

Alluminio idrossido • Aluminium hydroxyde • Aluminio hidróxido

Al(OH)<sub>3</sub>  
Molecular Weight: 78  
CAS: 21645-51-2  
EEC-N: 244-492-7



### Warning

H319  
P264-P280-P305+P351+P338-P337+P313

### Aluminum hydroxide > RPE - For analysis

RPE

Description ..... White powder      Umidità (H2O) ..... ≤ 0.7 %      Fe2O3 ..... ≤ 100 ppm      Assay (complexometric) ..... ≥ 99.5 %  
Identification ..... Positive      Silicate ..... ≤ 0.01 %      Na2O (tot.) ..... ≤ 0.3 %

Code	Size	Packaging	Notes
417046	500 g	Plastic bottle	
417047	1 kg	Plastic bottle	

### Aluminum hydroxide > RE - Pure

RE

Description ..... White powder      Loss on ignition ..... 31 ÷ 36 %      Heavy metals (Pb) ..... ≤ 30 ppm      Water solubility ..... ≤ 0.5 %  
Identification ..... Positive      Chloride ..... ≤ 300 ppm      Sulphate ..... ≤ 500 ppm      Fe ..... ≤ 200 ppm

Code	Size	Packaging	Notes
311734	1 kg	Plastic bottle	



## Aluminum nitrate nonahydrate

Alluminio nitrato nonaidrato • Aluminium nitrate nonahydraté • Aluminio nitrato nonahydrate

Al(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O  
Molecular Weight: 375,13  
CAS: 7784-27-2  
EEC-N: 236-751-8

### Classification transport

ONU: 1438  
Transport Hazard class: 5.1  
Packing group III



### Danger

H272-H301-H315-H319  
P221-P264-P210a-P280a-P305+P351+P338-  
P301+P310a

### Aluminum nitrate nonahydrate > RPE - For analysis

RPE

Description ..... Semitransparent crystals      pH sol. 5% at 20°C ..... 2.5 ÷ 3.5      Sulphate ..... ≤ 50 ppm      Fe ..... ≤ 20 ppm  
Identification ..... Positive      Chloride ..... ≤ 20 ppm      Heavy metals (Pb) ..... ≤ 20 ppm      Assay ..... ≥ 99 %

Code	Size	Packaging	Notes
417095	100 g	Plastic bottle	
417096	500 g	Plastic bottle	
417097	1 kg	Plastic bottle	

### Aluminum nitrate nonahydrate > RE - Pure

RE

Description ..... Cristalli trasparenti      pH solution 5% ..... 2.5 ÷ 3.5      Heavy metals (Pb) ..... ≤ 20 ppm      Fe ..... ≤ 20 ppm  
Identification ..... Positive      Chloride ..... ≤ 20 ppm      Sulphate ..... ≤ 50 ppm      Assay (complexometric) ..... ≥ 99 %

Code	Size	Packaging	Notes
312007	1 kg	Plastic bottle	
312008	5 kg	Plastic jar	
312001	25 kg	Plastic bucket	



## Aluminum oxide

Alluminio ossido • Aluminium oxyde • Aluminio óxido

Synonym:  
Alumina

Al<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide > RPE - For analysis - Reag. Ph.Eur.

RPE

Description .....	White powder	Subst. not ppt NH4OH .....	≤0.5 %	Cd .....	≤5 ppm	Zn .....	≤10 ppm
Identification .....	Positive	Loss on ignition .....	≤0.5 %	Cu .....	≤5 ppm	Assay (complexometric) .....	≥98.0 %
Total nitrogen .....	≤100 ppm	Sulphate .....	≤0.1 %	Fe .....	≤50 ppm		
Chloride .....	≤500 ppm	Water solubility .....	≤0.4 %	Na .....	≤0.3 %		
Heavy metals (Pb) .....	≤10 ppm	As .....	≤5 ppm	Pb .....	≤5 ppm		

Code	Size	Packaging	Notes
417144	100 g	Plastic bottle	
417145	250 g	Plastic bottle	
417146	500 g	Plastic bottle	
417147	1 kg	Plastic bottle	
417143	25 kg	Plastic bucket	

### Aluminum oxide > RE - Pure

RE

Description .....	White powder	Fe2O3 .....	≤ 250 ppm	Si .....	≤ 400 ppm
Identification .....	Positive	Na2O .....	≤ 0.25 %	Assay (complexometric) .....	≥ 99.5 %

Code	Size	Packaging	Notes
312258	2.5 kg	Plastic bucket	
312259	5 kg	Plastic jar	
312252	25 kg	Plastic bucket	



## Aluminum oxide (acid)

Alluminio ossido (acido) • Aluminium oxyde (acide) • Aluminio óxido (ácido)

Synonym:  
Alumina

Al<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide (acid) > RS - For chromatography according to Brockmann

RS

Description .....	White crystalline powder	Identification .....	Positive	Activity grade 1 .....	Conform
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Code	Size	Packaging	Notes
417185	250 g	Plastic bottle	
417182	1 kg	Plastic bottle	



## Aluminum oxide (basic)

Alluminio ossido (basico) • Aluminium oxyde (basique) • Aluminio óxido (básico)

Synonym:  
Alumina

Al<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide (basic) > RS - For chromatography according to Brockmann

RS

Description .....	White granular powder	Identification .....	Positive	Activity grade 1 .....	Conform
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Code	Size	Packaging	Notes
417214	100 g	Plastic bottle	
417217	1 kg	Plastic bottle	





## Aluminum oxide (neutral)

Alluminio ossido (neutro) • Aluminium oxyde (neutre) • Aluminio óxido (neutro)

Synonym:  
Alumina

$Al_2O_3$   
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide (neutral) > RS - For chromatography according to Brockmann

RS

Description ..... White granular powder      Activity grade 1 ..... Conform      Fe2O3 ..... ≤ 0.03 %      Na2O ..... ≤ 0.4 %  
Identification ..... Positive      pH suspension 10% H2O ..... 6.5 ÷ 7.5      SiO2 ..... ≤ 0.03 %

Code	Size	Packaging	Notes
417245	250 g	Plastic bottle	
417241	1 kg	Plastic bottle	
417248	2.5 kg	Plastic bottle	



## Aluminum oxide activated

Alluminio ossido attivo • Aluminium oxyde actif • Aluminio óxido activo

Synonym:  
Alumina

$Al_2O_3$   
Molecular Weight: 101,96  
CAS: 1344-28-1  
EEC-N: 215-691-6

### Aluminum oxide activated > RE - Pure

RE

Description ..... Whitish granules      Identification ..... Positive      Diameter ..... 0.1 ÷ 0.5 mm

Code	Size	Packaging	Notes
312261	1 kg	Plastic bottle	



## Aluminum potassium sulfate dodecahydrate

Alluminio potassio solfato dodecaidrato • Aluminium potassium sulfate dodécahydraté • Aluminio y potasio sulfato dodecahidrato

Synonym:  
Potassium aluminum sulfate dodecahydrate

$AlK(SO_4)_2 \cdot 12H_2O$   
Molecular Weight: 474,39  
CAS: 7784-24-9

### Aluminum potassium sulfate dodecahydrate > RPE - For analysis - ACS

RPE

Description ..... White crystals      Ammonium ..... ≤ 50 ppm      Fe ..... ≤ 10 ppm  
Identification ..... Positive      Chloride ..... ≤ 5 ppm      Na ..... ≤ 200 ppm  
Water-insoluble matter ..... ≤ 50 ppm      Heavy metals (Pb) ..... ≤ 10 ppm      Assay (complexometric) ..... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
417295	100 g	Plastic bottle	
417296	500 g	Plastic bottle	
417297	1 kg	Plastic bottle	

### Aluminum potassium sulfate dodecahydrate > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBapharm

Description ..... White crystalline powder      pH 10% at 25° C ..... 3.0 ÷ 3.5      Heavy metals (Pb) ..... ≤ 20 ppm  
Identification ..... Positive      Loss on drying ..... 43.0 ÷ 46.0 %      Fe ..... ≤ 100 ppm  
Appearance of solution ..... Conform Ph.Eur.      Ammonium ..... ≤ 0.2 %      Assay (complexometric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
312401	1 kg	Plastic bottle	
312404	5 kg	Plastic jar	
312402	10 kg	Plastic jar	

### Aluminum potassium sulfate dodecahydrate > RE - Pure

RE

Description ..... White crystalline powder      Water-insoluble matter ..... ≤ 500 ppm      Fe ..... ≤ 300 ppm  
Identification ..... Positive      Heavy metals (Pb) ..... ≤ 50 ppm      Assay (complexometric) ..... ≥ 97 %

Code	Size	Packaging	Notes
312508	2.5 kg	Plastic bottle	



## Aluminum sulfate

Alluminio solfato • Aluminium sulfate • Aluminio sulfato

$Al_2(SO_4)_3 \cdot 18H_2O$   
Molecular Weight: 666,43  
CAS: 7784-31-8  
EEC-N: 233-135-0



### Danger

H318  
P280-P305+P351+P338-P310a

### Aluminum sulfate > RPE - For analysis - ACS

RPE

Description ..... White crystals      Water-insoluble matter ..... ≤ 100 ppm      Fe ..... ≤ 20 ppm      Mg ..... ≤ 20 ppm  
Identification ..... Positive      Heavy metals (Pb) ..... ≤ 10 ppm      Assay (complexometric) ..... 98.0 ÷ 102.0 %      Na ..... ≤ 0.02 %  
Ca ..... ≤ 100 ppm      Chloride ..... ≤ 50 ppm      K ..... ≤ 50 ppm

Code	Size	Packaging	Notes
417424	100 g	Plastic bottle	
417425	500 g	Plastic bottle	
417427	1 kg	Plastic bottle	

### Aluminum sulfate > RE - Pure

RE

Description ..... White crystals      Heavy metals (Pb) ..... ≤ 50 ppm      Assay (complexometric) ..... 16 ÷ 18 % (Al<sub>2</sub>O<sub>3</sub>)  
Identification ..... Positive      Fe ..... ≤ 100 ppm

Code	Size	Packaging	Notes
312753	5 kg	Plastic jar	
312752	10 kg	Plastic tank	
312751	25 kg	Plastic bucket	



## Amidoschwarz 10B solution

Amido nero 10B in soluzione • Noir amido 10B solution • Negro Amido 10B solución

CAS: 1064-48-8



### Warning

H319  
P264-P280-P305+P351+P338-P337+P313

### Amidoschwarz 10B solution > RS - For agroalimentary analysis

RS

Density at 20°C ..... 1.006 ÷ 1.012      Absorbance (sol 1/100)  
pH at 20°C ..... 2.30 ÷ 2.50      at 620 nm ..... 0.700 ÷ 0.730 AU

Code	Size	Packaging	Notes
502050	5 l	Plastic tank	
502051	10 l	Plastic tank	

4-Aminoantipyrine ► 4-Aminophenazon

p-Aminobenzenesulfonamide ► Sulfanilamide

4-Aminobenzenesulfonic acid ► Sulfanilic acid

**p-Aminobenzoic acid**

Acido p-aminobenzoico • Acide p-aminobenzoïque • Acido p-aminobenzoico

Synonym:

4-Aminobenzoic acid

PABA

$H_2NC_6H_4COOH$   
Molecular Weight: 137,14  
CAS: 150-13-0  
EEC-N: 205-753-0

**Warning**

H302-H315-H319-H317-H335  
P264-P271-P280-P304+P340-  
P305+P351+P338-P330

**p-Aminobenzoic acid > ERBApharm - According to pharmacopoeia : USP****ERBApharm**

Description ..... Yellowish powder      Melting point..... 186 ÷ 189 °C      Volat. diazotizable sub ..... ≤20 ppm  
Identification ..... Positive      Loss on drying ..... ≤0.2 %      Heavy metals (Pb)..... ≤20 ppm  
Ordinary impurities ..... Conform USP-NF      Sulphated ash ..... ≤0.1 %      Assay (acidimetric) ..... 98.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
391804	100 g	Plastic bottle	
391805	1 kg	Plastic bottle	

**Aminocyclohexane ▶ Cyclohexylamine****2-Aminoethanol ▶ Ethanolamine****2-Aminoethyl chloride hydrochloride ▶ 2-Chloroethylamine hydrochloride****Aminohippuric acid reagent**

Acido amminoippurico reattivo • Réactif à l'acide aminohippurique • Reactivo de ácido aminohippúrico

**Classification transport**

ONU: 1993

**Aminohippuric acid reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611003701	100 ml	Glass bottle	Ref Ph.Eur 1003701

**4-Amino-3-hydroxy-1-naphthalenesulfonic acid ▶ 1-Amino-2-naphthol-4-sulfonic acid****1-Amino-2-naphthol-4-sulfonic acid**

Acido 1-ammino-2-naftolo-4-solfonico • Acide 1-amino-2-naphtol-4-sulfonique • Acido 1-amino-2-naftol-4-sulfonico

Synonym:

4-Amino-3-hydroxy-1-naphthalenesulfonic acid

$NH_2C_{10}H_6(OH)SO_3H$   
Molecular Weight: 239,25  
CAS: 116-63-2  
EEC-N: 204-147-3

**1-Amino-2-naphthol-4-sulfonic acid > RPE - For analysis****RPE**

Description ..... Pink granular powder      Water (K.F) ..... ≤ 5 %      Assay ..... ≥ 94 %  
Identification ..... Positive      Sulphated ash ..... ≤ 0.5 %

Code	Size	Packaging	Notes
402032	25 g	Glass bottle	

**For the determination of phosphates**



## 4-Aminophenazon

4-Amminofenazone • 4-Aminophénazone • 4-Aminofenazona

Synonym:

4-Aminoantipyrine

4-Amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one

$C_8H_5NN(CH_3)C(CH_3)C(NH_2)CO$

Molecular Weight: 203,25

CAS: 83-07-8

EEC-N: 201-452-3



### Warning

H302

P264-P270-P330-P301+P312a-P501a

### 4-Aminophenazon > RS - For phenols detection

RS

Description ..... Yellowish crystalline powder    Melting point ..... 105.5 ÷ 110 ° C    Residue on ignition ..... ≤ 0.1 %  
 Identification ..... Positive    Loss on drying ..... ≤ 1.5 %    Assay (non-aqueous medium) ..... ≥ 97.5 % (s.s.)

Code	Size	Packaging	Notes
418381	25 g	Glass bottle	



## m-Aminophenol

m-Amminofenolo • m-Aminophenol • m-Aminofenol

Synonym:

3-Aminophenol

$NH_2C_6H_4OH$

Molecular Weight: 109,13

CAS: 591-27-5

EEC-N: 209-711-2

### Classification transport

ONU: 2512

Transport Hazard class: 6.1

Packing group III



### Warning

H302-H332-H411

P264-P273-P271-P261-P304+P340-P330

### m-Aminophenol > RE - Pure

RE

Description ..... Yellowish powder    Identification ..... Positive    Melting point ..... 122 ÷ 126 ° C    Assay (ex nitrogen) ..... ≥ 98 %

Code	Size	Packaging	Notes
418564	100 g	Glass bottle	



## p-Aminophenol

p-Amminofenolo • p-Aminophénol • p-Aminofenol

Synonym:

4-Aminophenol

4-Hydroxyaniline

$NH_2C_6H_4OH$

Molecular Weight: 109,13

CAS: 123-30-8

EEC-N: 204-616-2

### Classification transport

ONU: 2512

Transport Hazard class: 6.1

Packing group III



### Warning

H302-H332-H341-H410

P264-P273-P271-P280-P304+P340-P308+P313

### p-Aminophenol > RE - Pure

RE

Description ..... White powder or yellow    Identification ..... Positive    Residue on ignition ..... ≤ 2.5 %    Assay (GLC) ..... ≥ 96.0 %

Code	Size	Packaging	Notes
418594	100 g	Glass bottle	

## 2-Aminopropane ► Isopropylamine

## α-Aminotoluene ► Benzylamine



## Amman's lactophenol solution

Lattofenolo d'Amman soluzione • Lactophénol d'Amman en solution • Lactofenol de Amman solución

### Classification transport

ONU: 2810

Transport Hazard class: 6.1

Packing group II



### Danger

H302-H312-H332-H314-H318-H341-H373

P264-P271-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

### Amman's lactophenol solution > RS - For microscopy

RS

Description ..... Amber liquid    Identification ..... Positive    Density at 20°C ..... 1.155 ÷ 1.159

Code	Size	Packaging	Notes
457531	100 ml	Glass bottle	

**Dye for bacteriology. Contains phenol**



## Ammonia solution 32%

Ammoniaci soluzione 32% • Ammoniaque solution 32% • Amonio hidróxido 32%

Synonym:

Ammonium hydroxide solution

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



**Danger**

H314-H318-H335-H400  
P273-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Ammonia solution 32% > RE - Pure

**RE**

Description ..... Clear liquid Identification ..... Positive Assay (alcalimetric)..... 28 ÷ 34 %  
Colour ..... ≤ 10 APHA Density at 20°C ..... 0.880 ÷ 0.898

Code	Size	Packaging	Notes
528503	5 l	Plastic drum	
528501	18 kg	Plastic tank	



## Ammonia solution 30%

Ammoniaci soluzione 30% • Ammoniaque solution 30% • Amonio hidróxido 30%

Synonym:

Ammonium hydroxide solution

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



**Danger**

H314-H318-H335-H400  
P273-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Ammonia solution 30% > RS - RSE - For electronic use

**RS**

Description ..... Clear liquid	Ag ..... ≤0.02 ppm	Cu ..... ≤0.01 ppm	Pt ..... ≤0.05 ppm
Colour (APHA) ..... ≤10	Al ..... ≤0.05 ppm	Fe ..... ≤0.03 ppm	Sb ..... ≤0.05 ppm
Identification ..... Positive	As ..... ≤0.025 ppm	Ga ..... ≤0.02 ppm	Sn ..... ≤0.02 ppm
Density at 20° C ..... 0.892 ÷ 0.910	Au ..... ≤0.05 ppm	In ..... ≤0.02 ppm	Sr ..... ≤0.02 ppm
Carbonate ..... ≤5 ppm	B ..... ≤0.01 ppm	K ..... ≤0.2 ppm	Ta ..... ≤0.1 ppm
Chloride ..... ≤0.25 ppm	Ba ..... ≤0.1 ppm	Li ..... ≤0.02 ppm	Ti ..... ≤0.05 ppm
Phosphate ..... ≤0.2 ppm	Be ..... ≤0.02 ppm	Mg ..... ≤0.1 ppm	Tl ..... ≤0.05 ppm
Heavy metals (Pb) ..... ≤0.2 ppm	Bi ..... ≤0.02 ppm	Mn ..... ≤0.01 ppm	V ..... ≤0.05 ppm
Residue on ignition ..... ≤3 ppm	Ca ..... ≤0.2 ppm	Mo ..... ≤0.05 ppm	Zn ..... ≤0.05 ppm
Subst. reducing KMnO <sub>4</sub> ..... ≤5 ppm	Cd ..... ≤0.01 ppm	Na ..... ≤0.5 ppm	Zr ..... ≤0.05 ppm
Sulphate ..... ≤1 ppm	Co ..... ≤0.01 ppm	Ni ..... ≤0.01 ppm	
Assay (alcalimetric) ..... 28 ÷ 32 %	Cr ..... ≤0.01 ppm	Pb ..... ≤0.01 ppm	

Code	Size	Packaging	Notes
420071	1 l	Glass bottle	
420073	2 l	Glass bottle	
420077	5 l	Plastic bottle	
420075	25 kg	Plastic drum	

### Ammonia solution 30% > RPE - For analysis - ACS

**RPE**

Description ..... Clear colourless liquid	Heavy metals (Pb) ..... ≤0.4 ppm	Cd ..... ≤0.01 ppm	Na ..... ≤1 ppm
Colour (APHA) ..... ≤10	Subst. reducing KMnO <sub>4</sub> ..... ≤8 ppm(5m)	Co ..... ≤0.01 ppm	Ni ..... ≤0.02 ppm
Identification ..... Positive	Silicate ..... ≤10 ppm	Cr ..... ≤0.02 ppm	Pb ..... ≤0.02 ppm
Assay (alcalimetric) ..... 28.0 ÷ 30.0 %	Sulphide ..... ≤0.1 ppm	Cu ..... ≤0.02 ppm	Zn ..... ≤0.05 ppm
Density at 20° C ..... 0.892 ÷ 0.910	Sulphate ..... ≤2 ppm	Fe ..... ≤0.05 ppm	Nitrate ..... ≤2 ppm
Carbonate ..... ≤10 ppm	Ag ..... ≤0.02 ppm	K ..... ≤0.2 ppm	Residue on ignition ..... ≤20 ppm
Chloride ..... ≤0.5 ppm	As ..... ≤0.02 ppm	Mg ..... ≤0.1 ppm	
Phosphate ..... ≤0.3 ppm	Ca ..... ≤0.5 ppm	Mn ..... ≤0.01 ppm	

Code	Size	Packaging	Notes
419941	1 l	Glass bottle	
419943	2 l	Glass bottle	
419948	2 l	Plastic bottle	
419945	5 l	Plastic tank	
419946	25 kg	Plastic drum	

a  
b  
c  
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f  
g  
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i  
j  
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o  
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q  
r  
s  
t  
u  
v  
w  
x  
y  
z

## Ammonia solution 30% > RE - Pure

**RE**

Description .....	Clear liquid	Residue on evaporation .....	≤0.1 %	Sulphate .....	≤500 ppm
Identification .....	Positive	Chloride .....	≤300 ppm	Fe .....	≤20 ppm
Density at 15° C .....	0.89 ÷ 0.91	Heavy metals (Pb) .....	≤50 ppm	Assay (alkalimetric) .....	28 ÷ 32 %

Code	Size	Packaging	Notes
314873	2 l	Glass bottle	
314871	25 kg	Plastic drum	



## Ammonia solution 28%

Ammoniacca soluzione 28% • Ammoniaque solution 28% • Amonio hidróxido 28%

 Synonym:  
Ammonium hydroxide solution

NH <sub>4</sub> OH	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 35,05	ONU: 2672		H314-H318-H335-H400
CAS: 1336-21-6	Transport Hazard class: 8		P273-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338
	Packing group III		

## Ammonia solution 28% > ERBApharm - According to pharmacopoeia : NF-FU-Ph.Eur.

**ERBApharm**

Description .....	Clear colourless liquid	Carbonate .....	≤ 60 ppm	Fe .....	≤ 0.25 ppm	Ph.Eur.
Identification .....	Positive	Chloride .....	≤ 1 ppm	Non volat. substances .....	≤ 0.002 % m/v	Pyridine and homologues...Conform Ph.Eur.
Appearance of solution .....	Conform Ph.Eur.	Sulphate .....	≤ 5 ppm	Assay (alkalimetric) .....	27.0 ÷ 30.0 % NH <sub>3</sub>	Origin (BSE/TSE)..... Synthesis
Density at 20° C .....	0.892 ÷ 0.910	Heavy metals (Pb) .....	≤ 1 ppm	Ready oxidizable substances .....	Conform	

Code	Size	Packaging	Notes
314861	1 l	Glass bottle	
314863	2 l	Glass bottle	
314866	25 kg	Plastic drum	



## Ammonia solution 25%

Ammoniacca soluzione 25% • Ammoniaque solution 25% • Amonio hidróxido 25%

 Synonym:  
Ammonium hydroxide solution

NH <sub>4</sub> OH	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 35,05	ONU: 2672		H314-H318-H335-H400
CAS: 1336-21-6	Transport Hazard class: 8		P273-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338
	Packing group III		

## Ammonia solution 25% > RS - RSE - For electronic use

**RS**

Description .....	Clear liquid	Al .....	≤0.05 ppm	Fe .....	≤0.03 ppm	Sb .....	≤0.05 ppm
Colour (APHA) .....	≤10	As .....	≤0.025 ppm	Ga .....	≤0.02 ppm	Sn .....	≤0.02 ppm
Identification .....	Positive	Au .....	≤0.05 ppm	In .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Density at 20° C .....	0.901 ÷ 0.907	B .....	≤0.01 ppm	K .....	≤0.2 ppm	Ta .....	≤0.1 ppm
Carbonate .....	≤5 ppm	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Chloride .....	≤0.25 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Phosphate .....	≤0.2 ppm	Bi .....	≤0.02 ppm	Mn .....	≤0.01 ppm	V .....	≤0.05 ppm
Heavy metals (Pb) .....	≤0.2 ppm	Ca .....	≤0.2 ppm	Mo .....	≤0.05 ppm	Zr .....	≤0.05 ppm
Residue on ignition .....	≤3 ppm	Cd .....	≤0.01 ppm	Na .....	≤0.5 ppm		
Subst. reducing KMnO <sub>4</sub> .....	≤5 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.01 ppm	Assay (alkalimetric) .....	24.0 ÷ 26.0 %
Total sulphur .....	≤1 ppm	Cr .....	≤0.01 ppm	Pb .....	≤0.01 ppm		
Ag .....	≤0.02 ppm	Cu .....	≤0.01 ppm	Pt .....	≤0.05 ppm		

Code	Size	Packaging	Notes
420085	5 l	Plastic bottle	
420084	25 kg	Plastic drum	

## Ammonia solution 25% > RS - MOS For electronic use

RS

Description	Clear liquid	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.05 ppm
Colour (APHA)	≤10	Al	≤0.05 ppm	Fe	≤0.03 ppm	Sb	≤0.05 ppm
Identification	Positive	As	≤0.025 ppm	Ga	≤0.02 ppm	Sn	≤0.02 ppm
Density at 20° C	0.901 ÷ 0.907	Au	≤0.05 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Carbonate	≤5 ppm	B	≤0.01 ppm	K	≤0.2 ppm	Ta	≤0.1 ppm
Chloride	≤0.25 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	Ti	≤0.05 ppm
Phosphate	≤0.2 ppm	Be	≤0.02 ppm	Mg	≤0.1 ppm	V	≤0.05 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	Zn	≤0.05 ppm
Residue on ignition	≤3 ppm	Ca	≤0.2 ppm	Mo	≤0.05 ppm	Zr	≤0.05 ppm
Subst. reducing KMnO4	≤5 ppm	Cd	≤0.01 ppm	Na	≤0.5 ppm		
Total sulphur	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm		
Assay (alkalimetric)	24.0 ÷ 26.0 %	Cr	≤0.01 ppm	Pb	≤0.01 ppm		

Code	Size	Packaging	Notes
420051	1 l	Plastic bottle	
420052	2.5 l	Plastic bottle	

## Ammonia solution 25% > RPE - For analysis

RPE

Description	Clear liquid	Phosphate	≤0.3 ppm	As	≤0.02 ppm	K	≤0.2 ppm
Colour (APHA)	≤10	Heavy metals (Pb)	≤0.4 ppm	Ca	≤0.5 ppm	Mg	≤0.1 ppm
Identification	Positive	Residue on ignition	≤3 ppm	Cd	≤0.01 ppm	Mn	≤0.01 ppm
Density at 20° C	0.901 ÷ 0.907	Subst. reducing KMnO4	≤8 ppm(5m)	Co	≤0.01 ppm	Na	≤1 ppm
Assay (alkalimetric)	24.0 ÷ 26.0 %	Sulphide	≤0.1 ppm	Cr	≤0.02 ppm	Ni	≤0.02 ppm
Carbonate	≤10 ppm	Total sulphur	≤1 ppm	Cu	≤0.02 ppm	Pb	≤0.02 ppm
Chloride	≤0.5 ppm	Ag	≤0.02 ppm	Fe	≤0.05 ppm	Zn	≤0.05 ppm

Code	Size	Packaging	Notes
419993	2 l	Glass bottle	



## Ammonia solution 20 - 22 %

Ammoniaca soluzione 20 - 22 % • Ammoniaque solution 20 - 22 % • Amonio hidróxido 20 - 22 %

Synonym:  
Ammonium hydroxide solution

NH<sub>3</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



**Danger**

H314-H400-H335-H411

P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P501a

## Ammonia solution 20 - 22 % > RS - Ultrapure - For trace analysis

RS

Description	Clear colourless liquid	Mg	≤ 20 ppt	Er	≤ 10 ppt	Rh	≤ 10 ppt
Identification	Positive	Mn	≤ 10 ppt	Eu	≤ 10 ppt	Rb	≤ 10 ppt
Ag	≤ 10 ppt	Na	≤ 20 ppt	Gd	≤ 10 ppt	Sm	≤ 10 ppt
Al	≤ 20 ppt	Ni	≤ 10 ppt	Ga	≤ 10 ppt	Sc	≤ 10 ppt
As	≤ 10 ppt	Pb	≤ 10 ppt	Ge	≤ 10 ppt	Te	≤ 10 ppt
Ba	≤ 10 ppt	Sn	≤ 10 ppt	Au	≤ 10 ppt	Tb	≤ 10 ppt
Be	≤ 10 ppt	Sr	≤ 10 ppt	Ho	≤ 10 ppt	Th	≤ 10 ppt
Bi	≤ 10 ppt	Tl	≤ 10 ppt	In	≤ 10 ppt	Tm	≤ 10 ppt
Ca	≤ 20 ppt	Ti	≤ 10 ppt	La	≤ 10 ppt	W	≤ 10 ppt
Cd	≤ 10 ppt	Zn	≤ 10 ppt	Li	≤ 10 ppt	U	≤ 10 ppt
Co	≤ 10 ppt	Assay (alkalimetric)	20 ÷ 22 %	Lu	≤ 10 ppt	V	≤ 10 ppt
Cr	≤ 10 ppt	Sb	≤ 10 ppt	Mo	≤ 10 ppt	Yb	≤ 10 ppt
Cu	≤ 20 ppt	Ce	≤ 10 ppt	Nd	≤ 10 ppt	Y	≤ 10 ppt
Fe	≤ 20 ppt	Cs	≤ 10 ppt	Nb	≤ 10 ppt	Zr	≤ 10 ppt
K	≤ 20 ppt	Dy	≤ 10 ppt	Pr	≤ 10 ppt		

Code	Size	Packaging	Notes
420161	500 ml	Plastic bottle	

## Ammonia solution 20 - 22 % > RS - Superpure - For trace analysis at ppb level

**RS**

Description .....	Clear liquid	Mg .....	≤ 1 ppb	Colour (APHA) .....	≤ 10	Rh .....	≤ 0.5 ppb
Identification .....	Positive	Mn .....	≤ 0.5 ppb	Ce .....	≤ 0.1 ppb	Rb .....	≤ 0.1 ppb
Ag .....	≤ 0.5 ppb	Mo .....	≤ 0.5 ppb	Cs .....	≤ 0.1 ppb	Sm .....	≤ 0.1 ppb
Al .....	≤ 1 ppb	Na .....	≤ 1 ppb	Dy .....	≤ 0.1 ppb	Sc .....	≤ 0.1 ppb
As .....	≤ 1 ppb	Ni .....	≤ 0.5 ppb	Er .....	≤ 0.1 ppb	Te .....	≤ 0.1 ppb
Ba .....	≤ 0.1 ppb	Pb .....	≤ 0.1 ppb	Eu .....	≤ 0.1 ppb	Tb .....	≤ 0.1 ppb
Be .....	≤ 0.1 ppb	Sb .....	≤ 0.5 ppb	Gd .....	≤ 0.1 ppb	Tl .....	≤ 0.1 ppb
Bi .....	≤ 0.1 ppb	Se .....	≤ 1 ppb	Ga .....	≤ 0.1 ppb	Tm .....	≤ 0.1 ppb
Ca .....	≤ 1 ppb	Sn .....	≤ 0.5 ppb	Ge .....	≤ 0.1 ppb	W .....	≤ 0.1 ppb
Cd .....	≤ 0.5 ppb	Sr .....	≤ 0.1 ppb	Au .....	≤ 0.5 ppb	Yb .....	≤ 0.1 ppb
Co .....	≤ 0.5 ppb	Ti .....	≤ 0.5 ppb	Ho .....	≤ 0.1 ppb	Y .....	≤ 0.1 ppb
Cr .....	≤ 0.5 ppb	V .....	≤ 0.5 ppb	In .....	≤ 0.1 ppb	Chloride .....	≤ 0.5 ppm
Cu .....	≤ 0.5 ppb	Zn .....	≤ 0.5 ppb	La .....	≤ 0.1 ppb	Phosphate .....	≤ 0.01 ppm
Fe .....	≤ 1 ppb	Zr .....	≤ 0.1 ppb	Lu .....	≤ 0.1 ppb	Sulphate .....	≤ 1 ppm
Hg .....	≤ 0.2 ppb	Assay (alkalimetric) .....	20 ÷ 22 %	Nd .....	≤ 0.1 ppb		
K .....	≤ 1 ppb	U .....	≤ 0.1 ppb	Nb .....	≤ 0.1 ppb		
Li .....	≤ 0.1 ppb	Th .....	≤ 0.1 ppb	Pr .....	≤ 0.1 ppb		

Code	Size	Packaging	Notes
420175	500 ml	Plastic bottle	

## Ammonia solution 20 - 22 % > RPE - For analysis

**RPE**

Description .....	Clear liquid	Phosphate .....	≤ 0.3 ppm	As .....	≤ 0.02 ppm	K .....	≤ 0.2 ppm
Colour (APHA) .....	≤ 10	Heavy metals (Pb) .....	≤ 0.4 ppm	Ca .....	≤ 0.5 ppm	Mg .....	≤ 0.1 ppm
Identification .....	Positive	Residue on calcination .....	≤ 3 ppm	Cd .....	≤ 0.01 ppm	Mn .....	≤ 0.01 ppm
Density at 20° C .....	0.917 ÷ 0.923	Subst. reducing KMnO4 .....	≤ 8 ppm(5m)	Co .....	≤ 0.01 ppm	Na .....	≤ 1 ppm
Assay (alkalimetric) .....	20 ÷ 22 %	Sulphide .....	≤ 0.1 ppm	Cr .....	≤ 0.02 ppm	Ni .....	≤ 0.02 ppm
Carbonate .....	≤ 10 ppm	Total sulphur .....	≤ 1 ppm	Cu .....	≤ 0.02 ppm	Pb .....	≤ 0.02 ppm
Chloride .....	≤ 0.5 ppm	Ag .....	≤ 0.02 ppm	Fe .....	≤ 0.05 ppm	Zn .....	≤ 0.05 ppm

Code	Size	Packaging	Notes
419981	1 l	Glass bottle	
419983	2 l	Glass bottle	
419984	25 kg	Plastic drum	



## Ammonia solution 17%

Ammoniaci soluzione 17% • Ammoniaque solution 17% • Amonio hidróxido 17 %

 Synonym:  
Ammonium hydroxide solution

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



### Danger

H314-H400-H335-H411  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P501a

## Ammonia solution 17% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611004701	250 ml	Plastic bottle	Ref Ph.Eur 1004701

**Storage: protected from atmospheric carbon dioxide, at a temperature below 20 °C**



## Ammonia solution 10%

Ammoniaci soluzione 10% • Ammoniaque solution 10% • Amonio hidróxido 10%

 Synonym:  
Ammonium hydroxide solution

NH<sub>4</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



### Danger

H314-H400-H335-H411  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P501a

## Ammonia solution 10% > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Identification .....	Positive	Density at 15° C .....	0.956 ÷ 0.962	Assay (alkalimetric) .....	9.5 ÷ 10.5 %
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Code	Size	Packaging	Notes
E420001	1 l	Plastic bottle	





## Ammonia solution 6N

Ammonio soluzione 6N • Ammoniaque solution 6N • Amonio solución 6N

Synonym:  
Ammonium hydroxide solution

NH<sub>4</sub>OH  
Molecular Weight: 35.05  
CAS: 1336-21-6

**Classification transport**  
ONU: 2672  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314-H318-H335-H400  
P273-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Ammonia solution 6N > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000151	1 l	Plastic bottle	



## Ammonia solution diluted

Ammoniaci soluzione diluita • Ammoniaque solution diluée • Amonio hidróxido solución diluido

Synonym:  
Ammonium hydroxide solution

NH<sub>2</sub>OH  
Molecular Weight: 35,05  
CAS: 1336-21-6

HEU210

### Ammonia solution diluted > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611004702	1 l	Plastic bottle	Ammonia, dilute R1 Ref Ph.Eur 1004702
611004703	1 l	Plastic bottle	Ammonia, dilute R2 Ref Ph.Eur 1004703



## Ammonia buffer solution pH 10

Tampone ammoniacale pH 10 • Tampon ammoniacal pH10 • Tampón de amoníaco pH 10

**Classification transport**  
ONU: 1719  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314-H335  
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Ammonia buffer solution pH 10 > RS - For analysis

RS

pH..... 10.5 - 10.9 unite pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0194/22	5 l	Plastic tank	
PS0194/95	5 l	Kubidos	
PS0194/96	10 l	Kubidos	



## Ammoniacal solution of copper tetrammine

Rame tetrammina soluzione ammoniacale • Solution amoniacale de tétramminecuivre • Cobre tetrammina solución amoniacale

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Ammoniacal solution of copper tetrammine > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022600	100 ml	Glass bottle	Ref Ph.Eur 1022600



## Ammonium standard solution

Ammonio standard soluzione • Ammonium standard solution • Amonio, solución patrón



Warning

H319

P264-P280-P305+P351+P338-P337+P313

### Ammonium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000301	100 ml	Plastic bottle	A 2.5 ppm solution : to dilute according to Ref Ph.Eur 5000301
615000302	100 ml	Plastic bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000302
615000309	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000300

### Ammonium standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503311	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503313	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Ammonium acetate

Ammonio acetato • Ammonium acétate • Amonio acetato



Molecular Weight: 77,08

CAS: 631-61-8

EEC-N: 211-162-9

### Ammonium acetate > RS - For LC/MS

RS

Assay ..... ≥ 98 %	Al ..... ≤ 1 ppm	Fe ..... ≤ 2 ppm	Sr ..... ≤ 1 ppm
Impurities ..... ≤ 50 ppm	As ..... ≤ 0.1 ppm	K ..... ≤ 5 ppm	Zn ..... ≤ 1 ppm
Water ..... ≤ 2 %	Ba ..... ≤ 1 ppm	Li ..... ≤ 1 ppm	Grad. Elution H. Peak at 254 nm < 0.001 AU
Residue on ignition ..... ≤ 100 ppm	Bi ..... ≤ 1 ppm	Mg ..... ≤ 1 ppm	Grad. Elution drift at 254 nm < 0.005 AU
pH ..... 6.5 ÷ 7.4	Ca ..... ≤ 5 ppm	Mn ..... ≤ 1 ppm	T260nm (1M) ..... ≥ 98 %
Melting point ..... 110 ÷ 112 °C	Cd ..... ≤ 1 ppm	Mo ..... ≤ 1 ppm	T280nm (1M) ..... ≥ 99 %
Chloride ..... ≤ 5 ppm	Co ..... ≤ 1 ppm	Na ..... ≤ 5 ppm	Preparation ..... Filtered through 0.1
Nitrate ..... ≤ 10 ppm	Cr ..... ≤ 1 ppm	Ni ..... ≤ 1 ppm	
Sulfate ..... ≤ 10 ppm	Cu ..... ≤ 1 ppm	Pb ..... ≤ 1 ppm	

Code	Size	Packaging	Notes
418781	50 g	Glass bottle	

### Ammonium acetate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Crist. bianchi	Water-insoluble matter ..... ≤ 50 ppm	Nitrate ..... ≤ 10 ppm	Fe ..... ≤ 5 ppm
Identification ..... Positive	Residue on ignition ..... ≤ 100 ppm	Sulphate ..... ≤ 10 ppm	Assay (acc.to Sørensen) ..... ≥ 98 %
pH sol. 5% at 25° C ..... 6.7 ÷ 7.3	Chloride ..... ≤ 5 ppm	Heavy metals (Pb) ..... ≤ 5 ppm	

Code	Size	Packaging	Notes
418775	100 g	Plastic bottle	
418776	500 g	Plastic bottle	
418777	1 kg	Plastic bottle	
418772	5 kg	Plastic bucket	
418771	25 kg	Plastic bucket	

### Ammonium acetate > RE - Pure

RE

Description . White semitransparent crystals	Identification ..... Positive	Water ..... ≤ 2 %	Assay (non-aqueous medium) ≥ 97.5 % (s.s.)
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Code	Size	Packaging	Notes
313507	1 kg	Plastic bottle	
313508	5 kg	Plastic jar	
313502	25 kg	Plastic bucket	
313504	50 kg	Fibre drum	

## Ammonium aluminum sulfate dodecahydrate ▶ Aluminum ammonium sulfate dodecahydrate



### Ammonium bicarbonate

Ammonio bicarbonato • Ammonium bicarbonato • Amonio bicarbonato

Synonym:  
Ammonium hydrogen carbonate

$\text{NH}_2\text{HCO}_3$   
Molecular Weight: 79,06  
CAS: 1066-33-7  
EEC-N: 213-911-5



#### Warning

H302  
P264-P270-P330-P301+P312a-P501a

#### Ammonium bicarbonate > RPE - For analysis

RPE

Description	White crystalline powder	Water-insoluble matter	≤30 ppm	Cu	≤10 ppm	Ni	≤10 ppm
Identification	Positive	Sulphate	≤50 ppm	Fe	≤10 ppm	Pb	≤10 ppm
pH sol. 5% at 25° C	7.0 ÷ 8.0	Residue on ignition	≤500 ppm	K	≤10 ppm	Assay (acidimetric)	≥98.5 %
Chloride	≤5 ppm	As	≤1 ppm	Mg	≤10 ppm		
Phosphate	≤5 ppm	Ca	≤100 ppm	Na	≤20 ppm		

Code	Size	Packaging	Notes
418925	100 g	Plastic bottle	
418926	500 g	Plastic bottle	
418927	1 kg	Plastic bottle	
418929	5 kg	Plastic jar	

#### Ammonium bicarbonate > RE - Pure

RE

Description	White crystalline powder	Sulphated ash	≤500 ppm	Sulphate	≤150 ppm
Identification	Positive	Chloride	≤50 ppm	Assay (acidimetric)	≥99 %

Code	Size	Packaging	Notes
313601	5 kg	Plastic jar	

## Ammonium bifluoride ▶ Ammonium hydrogen difluoride



### Ammonium bromide

Ammonio bromuro • Ammonium bromure • Amonio bromuro

$\text{NH}_4\text{Br}$   
Molecular Weight: 97,94  
CAS: 12124-97-9  
EEC-N: 235-183-8

#### Ammonium bromide > RPE - For analysis - ACS

RPE

Description	White crystalline powder	Residue on ignition	≤100 ppm	Sulphate	≤50 ppm	Assay (argentimetric)	≥99.0 %
Identification	Positive	Bromate	≤20 ppm	Heavy metals (Pb)	≤5 ppm		
pH sol. 5% at 25° C	4.5 ÷ 6.0	Chloride	≤0.2 %	Ba	≤20 ppm		
Water-insoluble matter	≤50 ppm	Iodide	Conform	Fe	≤5 ppm		

Code	Size	Packaging	Notes
419174	100 g	Plastic bottle	
419175	250 g	Plastic bottle	
419176	500 g	Plastic bottle	
419177	1 kg	Plastic bottle	



## Ammonium carbamate

Ammonio carbammato • Ammonium carbamate • Amonio carbamato

Synonym:  
Carbamic acid ammonium salt

$\text{NH}_2\text{COONH}_4$   
Molecular Weight: 78,07  
CAS: 1111-78-0  
EEC-N: 214-185-2



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Ammonium carbamate > RPE - For analysis

**RPE**

Description	Pezzi irregolari bianchi	Cu	≤ 5 ppm	Pb	≤ 5 ppm	Cr	≤ 5 ppm
Identification	Positive	Fe	≤ 5 ppm	Zn	≤ 5 ppm	Mn	≤ 5 ppm
Chloride	≤ 5 ppm	K	≤ 50 ppm	Assay (alkalimetric)	≥ 99,5 %	Residue on calcination	≤ 20 ppm
Phosphate	≤ 5 ppm	Mg	≤ 5 ppm	Sulphate	≤ 10 ppm		
Nitrate	≤ 10 ppm	Na	≤ 50 ppm	Cd	≤ 5 ppm		
Ca	≤ 10 ppm	Ni	≤ 5 ppm	Co	≤ 5 ppm		

Code	Size	Packaging	Notes
419201	100 g	Plastic bottle	
419204	500 g	Plastic bottle	
419202	1 kg	Plastic bottle	



## Ammonium carbonate

Ammonio carbonato • Ammonium carbonate • Amonio carbonato

Synonym:  
Hartshorn salt

$(\text{NH}_4)_2\text{CO}_3$   
Molecular Weight: 96,09  
CAS: 10361-29-2  
EEC-N: 233-786-0



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Ammonium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description	White crystals	Non volat.substances	≤ 100 ppm	Heavy metals (Pb)	≤ 5 ppm
Identification	Positive	Chloride	≤ 5 ppm	Fe	≤ 5 ppm
Water-insoluble matter	≤ 50 ppm	Total sulphur	≤ 20 ppm	Assay (alkalimetric)	≥ 30,0 %

Code	Size	Packaging	Notes
419235	100 g	Plastic bottle	
419236	500 g	Plastic bottle	
419237	1 kg	Plastic bottle	
419239	5 kg	Plastic jar	
419232	25 kg	Plastic bucket	

### Ammonium carbonate > ERBApharm - According to pharmacopoeia : NF

**ERBApharm**

Description	White crystalline powder	Sulphated ash	≤ 0,1 %	Sulphate	≤ 50 ppm	Assay (acidimetric)	30,0 ÷ 34,0 % (NH <sub>3</sub> )
Identification	Positive	Chloride	≤ 35 ppm	Heavy metals (Pb)	≤ 10 ppm		

Code	Size	Packaging	Notes
313887	1 kg	Plastic bottle	
313889	5 kg	Plastic jar	



## Ammonium carbonate solution 20%

Ammonio carbonato soluzione 20% • Ammonium carbonate solution 20% • Amonio carbonato solución 20%

$(\text{NH}_4)_2\text{CO}_3$   
Molecular Weight: 96,09  
CAS: 10361-29-2



**Danger**  
H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Ammonium carbonate solution 20% > RPE - For analysis

**RPE**

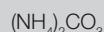
Description	Clear colourless liquid	Identification	Positive	Density at 15° C	1,065 ÷ 1,075
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Code	Size	Packaging	Notes
E419261	1 l	Bottle	



## Ammonium carbonate solution 158 g/l

Ammonio carbonato soluzione 158 g/l • Ammonium carbonate solution 158 g/l • Amonio carbonato solución 158 g/l



HEU210

Molecular Weight: 96,09

CAS: 10361-29-2

### Ammonium carbonate solution 158 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611005201	1 l	Plastic bottle	Ref Ph.Eur 1005201



## Ammonium chloride

Ammonio cloruro • Ammonium chlorure • Amonio cloruro

Synonym:

Salmiac



Molecular Weight: 53,49

CAS: 12125-02-9

EEC-N: 235-186-4



### Warning

H302-H319

P264-P280i-P305+P351+P338-P330-P337+P313-

P301+P312a

### Ammonium chloride > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description	White crystalline powder	Water-insoluble matter	≤50 ppm	Sulphate	≤20 ppm	Fe	≤2 ppm
Identification	Positive	Residue on ignition	≤ 100 ppm	Heavy metals (Pb)	≤5 ppm	Mg	≤5 ppm
pH sol. 5% at 25° C	4.5 ÷ 5.5	Phosphate	≤2 ppm	Ca	≤10 ppm	Assay (argentimetric)	≥99.5 %

Code	Size	Packaging	Notes
419415	100 g	Plastic bottle	
419416	500 g	Plastic bottle	
419417	1 kg	Plastic bottle	
419419	5 kg	Plastic jar	
419412	25 kg	Drum	

### Ammonium chloride > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBapharm

Description	White crystalline powder	Bromide and Iodide	Conform Ph.Eur.	Sulphated ash	≤0.1 %	Fe	≤20 ppm
Identification	Positive	Thiocyanate	Conform USP-NF	Heavy metals (Pb)	≤10 ppm	Assay (argentimetric)	99.5 ÷ 100.5 % s.s.
Appearance of solution	Conform Ph.Eur.	pH (1:20)	4.6 ÷ 6.0	Sulphate	≤150 ppm	Origin (BSE/TSE)	Synthesis
Acidity or alkalinity	Conform Ph.Eur.	Loss on drying	≤0.5 %	Ca	≤200 ppm	Residual solvents (Current ICH)	Conform

Code	Size	Packaging	Notes
313957	1 kg	Plastic bottle	
313952	2.5 kg	Plastic jar	
313956	5 kg	Plastic jar	
313951	25 kg	Plastic bucket	
313954	50 kg	Fibre drum	

### Ammonium chloride > RE - Pure

RE

Description	Polvere crist. bianca parz. ammassata	Identification	Positive	Not soluble matter	≤ 0.02 %	Fe	≤ 10 ppm
		Water (K.F)	≤ 0.1 %	Sulphated ash	≤ 0.3 %	Assay (argentimetric)	≥ 99 %

Code	Size	Packaging	Notes
314002	2.5 kg	Plastic jar	
314001	25 kg	Plastic bucket	



## Ammonium chloride buffer solution pH 10.7

Tampone cloruro di ammonio pH 10.7 • Tampon chlorure d'ammonium pH 10.7 • Tampón cloruro di ammonio pH 10.7



### Danger

H314-H318

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonium chloride buffer solution pH 10.7 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614013400	1 l	Plastic bottle	Ref Ph.Eur 4013400



## Ammonium chloride buffer solution pH 10.0

Tampone cloruro di ammonio pH 10.0 • Tampon chlorure d'ammonium pH 10.0 • Tampón cloruro di ammonio pH 10.0



### Danger

H314-H318

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

Ammonium chloride buffer solution pH 10.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007301	100 ml	Plastic bottle	Ref Ph.Eur 4007300
614007300	1 l	Plastic bottle	Ref Ph.Eur 4007300



## Ammonium chloride buffer solution pH 9.5

Tampone cloruro di ammonio pH 9.5 • Tampon chlorure d'ammonium pH 9.5 • Tampón cloruro di ammonio pH 9.5

Ammonium chloride buffer solution pH 9.5 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007200	1 l	Plastic bottle	Ref Ph.Eur 4007200



## Ammonium chloride solution 10%

Ammonio cloruro soluzione 10% • Ammonium chlorure solution 10% • Amonio cloruro solución 10%

NH<sub>4</sub>Cl

Molecular Weight: 53,49

CAS: 12125-02-9



### Warning

H319

P264-P280-P305+P351+P338-P337+P313

Ammonium chloride solution 10% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.025 ÷ 1.031 Assay ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E419531	1 l	Bottle	



## tri-Ammonium citrate

Ammonio citrato tribasico • tri-Ammonium citrate • Tri-amonio citrato

Synonym:

Ammonium citrate tribasic

Citric acid triammonium salt

HOC(CO<sub>2</sub>NH<sub>4</sub>)(CH<sub>2</sub>CO<sub>2</sub>NH<sub>4</sub>)<sub>2</sub>

Molecular Weight: 243,22

CAS: 3458-72-8

EEC-N: 222-394-5



### Warning

H315-H319-H335

P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

tri-Ammonium citrate > RE - Pure

RE

Description ..... White crystalline powder Chloride ..... ≤ 20 ppm Fe ..... ≤ 20 ppm  
Identification ..... Positive Sulphate ..... ≤ 70 ppm Assay ..... ≥ 97 %

Code	Size	Packaging	Notes
313895	25 kg	Plastic bucket	



## Ammonium citrate dibasic

Ammonio citrato bibasico • Ammonium citrate dibasique • Amonio citrato dibásico

Synonym:  
Ammonium hydrogencitrate  
Citric acid ammonium salt

$\text{HOCCOOH}(\text{CH}_2\text{COONH}_4)_2$   
Molecular Weight: 226,18  
CAS: 3012-65-5  
EEC-N: 221-146-3



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Ammonium citrate dibasic > RPE - For analysis - ACS

RPE

Description ..... White crystals      Residue on ignition ..... ≤ 50 ppm      Oxalate ..... ≤ 500 ppm      Fe ..... ≤ 10 ppm  
Identification ..... Positive      Chloride ..... ≤ 10 ppm      Total sulphur ..... ≤ 50 ppm      Assay (acc.to Sørensen).... 98.0 ÷ 103.0 %  
Water-insoluble matter ..... ≤ 50 ppm      Phosphate ..... ≤ 5 ppm      Heavy metals (Pb)..... ≤ 5 ppm

Code	Size	Packaging	Notes
419315	250 g	Plastic bottle	
419313	500 g	Plastic bottle	
419317	1 kg	Plastic bottle	
419312	25 kg	Plastic bucket	
419316	50 kg	Fibre drum	



## Ammonium citrate solution 20%

Ammonio citrato soluzione 20% • Ammonium citrate solution 20% • Amonio citrato solución 20%

Synonym:  
Ammonium hydrogencitrate  
Citric acid ammonium salt

$\text{HOCCOOH}(\text{CH}_2\text{COONH}_4)_2$   
Molecular Weight: 226,18  
CAS: 3012-65-5



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Ammonium citrate solution 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid      pH of the substance ..... 7 - 7.3      Assay ..... 19 - 21 %

Code	Size	Packaging	Notes
E419361	1 l	Bottle	

**For the determination of phosphates**

Ammonium citrate tribasic ▶ tri-Ammonium citrate

Ammonium cobalt(II) sulfate hexahydrate ▶ Cobalt (II) ammonium sulfate hexahydrate

Ammonium dihydrogenphosphate ▶ Ammonium phosphate monobasic



## Ammonium fluoride

Ammonio fluoruro • Ammonium fluorure • Amonio fluoruro

$\text{NH}_4\text{F}$   
Molecular Weight: 37,04  
CAS: 12125-01-8  
EEC-N: 235-185-9

### Classification transport

ONU: 2505  
Transport Hazard class: 6.1  
Packing group III



### Danger

H301-H311-H331  
P264-P271-P304+P340-P301+P310a-P312a-P330

### Ammonium fluoride > RPE - For analysis - ACS

RPE

Description ..... White crystals      Residue on ignition ..... ≤ 100 ppm      Heavy metals (Pb)..... ≤ 5 ppm  
Identification ..... Positive      Chloride ..... ≤ 10 ppm      Fe ..... ≤ 5 ppm  
Water-insoluble matter ..... ≤ 50 ppm      Sulphate ..... ≤ 50 ppm      Assay (acc.to Sørensen)..... ≥ 98.0 %

Code	Size	Packaging	Notes
419634	100 g	Plastic bottle	
419638	250 g	Plastic bottle	
419635	500 g	Plastic bottle	
419637	1 kg	Plastic bottle	



## Ammonium formate

Ammonio formiato • Ammonium formiate • Amonio formiato

Synonym:  
Formic acid ammonium salt

HCOONH<sub>4</sub>  
Molecular Weight: 63,06  
CAS: 540-69-2  
EEC-N: 208-753-9



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Ammonium formate > RS - For LC/MS

RS

Assay ..... ≥ 98 %	As ..... ≤ 0.1 ppm	Fe ..... ≤ 3 ppm	Pb ..... ≤ 1 ppm
Impurities ..... ≤ 50 ppm	Ba ..... ≤ 1 ppm	K ..... ≤ 5 ppm	Sr ..... ≤ 1 ppm
Water ..... ≤ 0.5 %	Bi ..... ≤ 1 ppm	Li ..... ≤ 1 ppm	Zn ..... ≤ 1 ppm
pH ..... 5.5 ÷ 7.6	Ca ..... ≤ 5 ppm	Mg ..... ≤ 1 ppm	Grad. Elution H.Peak at 254 nm ≤ 0.001 AU
Melting point ..... 119 ÷ 121 °C	Cd ..... ≤ 1 ppm	Mn ..... ≤ 1 ppm	Grad. Elution drift at 254 nm .... ≤ 0.005 AU
Chloride ..... ≤ 5 ppm	Co ..... ≤ 1 ppm	Mo ..... ≤ 1 ppm	T260nm (1M) ..... ≥ 97 %
Sulfate ..... ≤ 10 ppm	Cr ..... ≤ 1 ppm	Na ..... ≤ 5 ppm	Preparation ..... Filtered through 0.1
Al ..... ≤ 1 ppm	Cu ..... ≤ 1 ppm	Ni ..... ≤ 1 ppm	

Code	Size	Packaging	Notes
419741	50 g	Glass bottle	

### Ammonium formate > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... Colourless crystals	Water ..... ≤ 0.5 %	Water-insoluble matter ..... ≤ 50 ppm	Assay (acc.to Sørensen) ..... ≥ 98.0 %
Identification ..... Positive	Chloride ..... ≤ 5 ppm	Heavy metals (Pb) ..... ≤ 5 ppm	Melting point ..... 119 ÷ 121 °C
pH sol. 5% at 25° C ..... 5.5 ÷ 7.0	Sulphate ..... ≤ 10 ppm	Fe ..... ≤ 5 ppm	

Code	Size	Packaging	Notes
419734	100 g	Plastic bottle	
419735	250 g	Plastic bottle	
419736	500 g	Plastic bottle	
419737	1 kg	Plastic bottle	
419733	25 kg	Plastic bucket	

Ammonium heptamolybdate tetrahydrate ► Ammonium molybdate tetrahydrate

Ammonium hydrogen carbonate ► Ammonium bicarbonate

di-Ammonium hydrogen citrate ► Ammonium citrate dibasic



## Ammonium hydrogen difluoride

Ammonio bifluoruro • Ammonium bifluorure • Amonio bifluoruro

Synonym:  
Ammonium bifluoride

NH<sub>4</sub>F.HF  
Molecular Weight: 57,04  
CAS: 1341-49-7  
EEC-N: 215-676-4

### Classification transport

ONU: 1727  
Transport Hazard class: 8  
Packing group II



### Danger

H301-H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Ammonium hydrogen difluoride > RE - Pure

RE

Description ..... White flakes	Water (K.F.) ..... ≤ 0.5 %	Sulphite ..... ≤ 100 ppm	Fe ..... ≤ 500 ppm
Identification ..... Positive	Sulphate ..... ≤ 2000 ppm	Heavy metals (Pb) ..... ≤ 200 ppm	Assay (acidimetric) ..... ≥ 94 %

Code	Size	Packaging	Notes
314261	1 kg	Plastic bottle	
314263	25 kg	Plastic bucket	





## di-Ammonium hydrogen phosphate 25 mg/L solution

Ammonio diidrogeno fosfato 25 mg/L soluzione • Ammonium dihydrogenophosphate 25mg/L • di-Amonio Hidrógeno Fosfato solución 25 mg/l

Synonym:  
Ammonium dihydrogenophosphate  
Monoammonium phosphate

$NH_4H_2PO_4$   
Molecular Weight: 115,03  
CAS: 7722-76-1

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group III



**Warning**  
H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

### di-Ammonium hydrogen phosphate 25 mg/L solution > RS - Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503194	50 ml	Plastic bottle	conc. 25 ppm - Matrix : Nitric acid

## di-Ammonium hydrogenphosphate ► Ammonium phosphate dibasic

## Ammonium hydroxide solution ► Ammonia solution 32%



## Ammonium iodide

Ammonio ioduro • Ammonium iodure • Amonio ioduro

$NH_4I$   
Molecular Weight: 144,94  
CAS: 12027-06-4  
EEC-N: 234-717-7



**Warning**  
H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Ammonium iodide > RPE - For analysis - ACS

RPE

Description	White granules	Chloride + bromide (Cl) ..... ≤ 50 ppm	Heavy metals (Pb)..... ≤ 10 ppm	Assay (oxidimetric) ..... ≥ 99.0 %
Identification	Positive	Water-insoluble matter ..... ≤ 50 ppm	Ba ..... ≤ 20 ppm	Sulphate ..... ≤ 0.05 %
Residue on ignition	≤ 0.05 %	Phosphate ..... ≤ 10 ppm	Fe ..... ≤ 5 ppm	

Code	Size	Packaging	Notes
420133	50 g	Glass bottle	
420135	250 g	Glass bottle	
420136	1 kg	Glass bottle	

Stabilized with ~1,5% of  $NH_4H_2PO_2$

## Ammonium iron(III) citrate ► Iron (III) ammonium citrate green

## Ammonium iron(III) sulfate dodecahydrate ► Iron (III) ammonium sulfate dodecahydrate

## Ammonium iron(II) sulfate hexahydrate ► Iron (II) ammonium sulfate hexahydrate



## Ammonium molybdate tetrahydrate

Ammonio molibdato tetraidrato • Ammonium molybdate tetrahydraté • Amonio molibdato tetrahidratado

Synonym:  
Ammonium heptamolybdate tetrahydrate

$(NH_4)_6Mo_7O_{24} \cdot 4H_2O$   
Molecular Weight: 1235,86  
CAS: 12054-85-2  
EEC-N: 234-320-9



**Warning**  
H302-H332  
P264-P271-P261-P304+P340-P330-P301+P312a

### Ammonium molybdate tetrahydrate > RS - For microanalysis

RS

Description	White crystalline powder	AsO <sub>4</sub> , PO <sub>4</sub> , SiO <sub>4</sub> (SiO <sub>2</sub> ) ..... ≤ 0.001 %	Heavy metals (Pb)..... ≤ 10 ppm	Assay (complexometric) ..... 81.0 ÷ 83.0 %
Identification	Positive	Chloride ..... ≤ 20 ppm	K ..... ≤ 100 ppm	
Water-insoluble matter	≤ 0.005 %	Sulphate ..... ≤ 200 ppm	Mg ..... ≤ 50 ppm	
Nitrate	≤ 0.003 %	Phosphate ..... ≤ 5 ppm	Na ..... ≤ 100 ppm	

Code	Size	Packaging	Notes
420391	100 g	Glass bottle	

## Ammonium molybdate tetrahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Green crystals	ppm	Sulphate .....	≤ 200 ppm	Assay (oxidimetric) . 81.0 ÷ 83.0 % (MoO <sub>3</sub> )
Identification .....	Positive	Chloride .....	≤ 20 ppm	Heavy metals (Pb) .....	≤ 10 ppm
Water-insoluble matter .....	≤ 50 ppm	Phosphate .....	≤ 5 ppm	K .....	≤ 100 ppm
Arsenate, phosphate and silicate (SiO <sub>2</sub> ) .....	≤ 10	Nitrate .....	≤ 30 ppm	Na .....	≤ 100 ppm

Code	Size	Packaging	Notes
420234	100 g	Glass bottle	
420236	500 g	Plastic bottle	
420238	2.5 kg	Plastic bottle	



## Ammonium molybdate solution 5%

Ammonio molibdato soluzione 5% • Ammonium molybdate solution 5% • Amonio molibdato solución 5%

(NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O  
 Molecular Weight: 1235,86  
 CAS: 12054-85-2

HEU210

## Ammonium molybdate solution 5% > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Identification .....	Positive	Density at 20° C .....	1.02 ÷ 1.04
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Code	Size	Packaging	Notes
E420321	1 l	Bottle	



## Ammonium molybdate solution 2.5% in nitric acid

 Ammonio molibdato soluzione 2.5% in acido nitrico • Ammonium molybdate solution 2.5% dans l'acide nitrique •  
 Amonio molibdato solución 2.5% en acido nítrico

(NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O  
 Molecular Weight: 1235,86  
 CAS: 12054-85-2

**Classification transport**  
 ONU: 2031  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H314-H318  
 P264-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

## Ammonium molybdate solution 2.5% in nitric acid > RPE - For analysis

**RPE**

Description .....	Clear liquid	Density at 20° C .....	1.0 ÷ 1.2
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Code	Size	Packaging	Notes
E420371	1 l	Bottle	



## Ammonium molybdate solution

Ammonio molibdato soluzione • Ammonium molybdate solution • Amonio molibdato solución

## Ammonium molybdate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611005703	1 l	Plastic bottle	Ammonium molybdate solution R2 Ref Ph.Eur 1005703



## Ammonium nitrate

Ammonio nitrato • Ammonium nitrate • Amonio nitrato

$NH_4NO_3$   
Molecular Weight: 80,04  
CAS: 6484-52-2  
EEC-N: 229-347-8

**Classification transport**  
ONU: 1942  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H271  
P221-P283-P210a-P280a-P306+P360-  
P371+P380+P375

### Ammonium nitrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description ..... White crystals      Residue on ignition ..... ≤ 100 ppm      Sulphate ..... ≤ 20 ppm      Acidity ..... Conform  
Identification ..... Positive      Chloride ..... ≤ 5 ppm      Heavy metals (Pb) ..... ≤ 5 ppm  
pH sol. 5% at 25° C ..... 4.5 ÷ 6.0      Phosphate ..... ≤ 5 ppm      Fe ..... ≤ 2 ppm  
Water-insoluble matter ..... ≤ 50 ppm      Nitrite ..... ≤ 5 ppm      Assay (alkalimetric) ..... ≥ 95 %

Code	Size	Packaging	Notes
420425	100 g	Plastic bottle	
420426	500 g	Plastic bottle	
420427	1 kg	Plastic bottle	
420429	5 kg	Plastic jar	
420422	25 kg	Plastic bucket	
420424	50 kg	Fibre drum	

### Ammonium nitrate > RE - Pure

**RE**

Description ..... White pearls      pH sol. 5% at 25° C ..... 4.6 ÷ 7      Total nitrogen ..... ≥ 34.2 %  
Identification ..... Positive      Residue on ignition ..... ≤ 0.5 %

Code	Size	Packaging	Notes
315509	5 kg	Plastic jar	
315502	25 kg	Plastic bucket	



## Ammonium nitrate 200 mg/L solution

Ammonio nitrato 200 mg/L soluzione • Ammonium nitrate 200 mg/L • Amonio nitrato 200 mg/L solución

$NH_4NO_3$   
Molecular Weight: 80,04  
CAS: 6484-52-2

**Classification transport**  
ONU: 1942  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H271  
P210-P221-P283-P280-P306+P360-  
P371+P380+P375

### Ammonium nitrate 200 mg/L solution > RS - Matrix modifiers for AAS-GTA

**RS**

Code	Size	Packaging	Notes
503195	50 ml	Plastic bottle	conc. 200 ppm - Matrix : Water



## Ammonium oxalate monohydrate

Ammonio ossalato monoidrato • Ammonium oxalate monohydraté • Amonio oxalato monohidrato

Synonym:  
Oxalic acid diammonium salt

$(NH_4)_2C_2O_4 \cdot H_2O$   
Molecular Weight: 142,11  
CAS: 6009-70-7  
EEC-N: 238-135-4



**Warning**  
H302-H312  
P264-P280h-P270-P330-P301+P312a-P302+P352a

### Ammonium oxalate monohydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... White crystals      Residue on ignition ..... ≤ 200 ppm      Heavy metals (Pb) ..... ≤ 5 ppm  
Identification ..... Positive      Chloride ..... ≤ 20 ppm      Fe ..... ≤ 2 ppm  
Water-insoluble matter ..... ≤ 50 ppm      Sulphate ..... ≤ 20 ppm      Assay (oxidimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
420475	250 g	Plastic bottle	
420476	500 g	Plastic bottle	
420477	1 kg	Plastic bottle	
420478	2.5 kg	Plastic jar	
420473	25 kg	Plastic bucket	



## Ammonium oxalate solution 4%

Ammonio ossalato soluzione 4% • Ammonium oxalate solution 4% • Amonio oxalato solución 4%

(NH<sub>4</sub>)<sub>2</sub>C<sub>2</sub>O<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight: 142,11  
CAS: 6009-70-7

HEU210

### Ammonium oxalate solution 4% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.00 ÷ 1.02 Assay (oxidimetric) ..... 3.8 ÷ 4.2 %

Code	Size	Packaging	Notes
E420521	1 l	Bottle	



## Ammonium persulfate

Ammonio persolfato • Ammonium persulfate • Amonio persulfato

Synonym:

APS

Ammonium peroxydisulfate

(NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
Molecular Weight: 228,2  
CAS: 7727-54-0  
EEC-N: 231-786-5

### Classification transport

ONU: 1444  
Transport Hazard class: 5.1  
Packing group III



### Danger

H272-H302-H315-H319-H334-H317-H335  
P221-P264-P210a-P304+P340-P305+P351+P338-  
P342+P311a

### Ammonium persulfate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellowish crystals Water-insoluble matter ..... ≤50 ppm Heavy metals (Pb) ..... ≤50 ppm Assay (oxidimetric) ..... ≥98.0 %  
Identification ..... Positive Residue on ignition ..... ≤500 ppm Fe ..... ≤10 ppm  
Acidity (H<sub>2</sub>SO<sub>4</sub>) ..... ≤0.04 meq/g Chloride & Chlorate(Cl) ..... ≤10 ppm Mn ..... ≤0.5 ppm

Code	Size	Packaging	Notes
420625	100 g	Plastic bottle	
420626	500 g	Plastic bottle	
420627	1 kg	Plastic bottle	
420629	5 kg	Plastic jar	
420623	25 kg	Plastic bucket	

### Ammonium persulfate > RE - Pure

RE

Description ..... White crystals or yellowish Heavy metals (Pb) ..... ≤ 50 ppm Assay (oxidimetric) ..... ≥ 97.5 %  
Identification ..... Positive Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
316008	500 g	Plastic bottle	
316002	25 kg	Drum	



## Ammonium phosphate dibasic

Ammonio fosfato bibasico • Ammonium phosphate dibasique • Amonio fosfato dibásico

Synonym:

Ammonium hydrogen phosphate

Diammonium hydrogenphosphate

(NH<sub>4</sub>)<sub>2</sub>HPO<sub>4</sub>  
Molecular Weight: 132,06  
CAS: 7783-28-0  
EEC-N: 231-987-8



### Warning

H312-H332  
P271-P280-P261-P304+P340-P312a-P363

### Ammonium phosphate dibasic > RPE - For analysis - ACS - Reag. USP

RPE

Description ..... White crystals Sulphate ..... ≤ 100 ppm Fe ..... ≤ 10 ppm Ca ..... ≤ 10 ppm  
Identification ..... Positive Chloride ..... ≤ 10 ppm K ..... ≤ 50 ppm Mg ..... ≤ 5 ppm  
pH sol. 5% at 25° C ..... 7.7 ÷ 8.1 Nitrate ..... ≤ 30 ppm Na ..... ≤ 50 ppm  
Water-insoluble matter ..... ≤ 50 ppm Heavy metals (Pb) ..... ≤ 10 ppm Assay (alkalimetric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
419835	100 g	Plastic bottle	
419836	500 g	Plastic bottle	
419837	1 kg	Plastic bottle	
419831	5 kg	Plastic jar	
419832	25 kg	Plastic bucket	
419834	50 kg	Fibre drum	

## Ammonium phosphate dibasic > RE - Pure

**RE**

Description ..... White crystals      pH sol. 1M ..... 8.00 ÷ 8.50      Loss on ignition ..... ≤ 0.1 %      Assay as nitrogen ..... ≥ 20.8 %  
 Identification ..... Positive      Water-insoluble matter ..... ≤ 0.05 %      Assay as phosphorus pentoxide .. ≥ 53.5 %      Assay (alkalimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
314757	1 kg	Plastic bottle	
314758	2.5 kg	Plastic jar	



## Ammonium phosphate monobasic

Ammonio fosfato monobásico • Ammonium phosphate monobasique • Amonio fosfato monobásico

 Synonym:  
*Ammonium dihydrogenphosphate*  
*Monoammonium phosphate*

$NH_4H_2PO_4$   
 Molecular Weight: 115,03  
 CAS: 7722-76-1  
 EEC-N: 231-764-5

## Ammonium phosphate monobasic > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... White crystals      Water-insoluble matter ..... ≤ 50 ppm      Ca ..... ≤ 10 ppm      Na ..... ≤ 50 ppm  
 Identification ..... Positive      Heavy metals (Pb) ..... ≤ 5 ppm      Mg ..... ≤ 5 ppm      Assay (acidimetric) ..... ≥ 98.0 %  
 pH sol. 5% at 25° C ..... 3.8 ÷ 4.4      Nitrate ..... ≤ 0.001 %      Fe ..... ≤ 10 ppm  
 Chloride ..... ≤ 5 ppm      Sulphate ..... ≤ 100 ppm      K ..... ≤ 50 ppm

Code	Size	Packaging	Notes
419785	100 g	Plastic bottle	
419786	500 g	Plastic bottle	
419787	1 kg	Plastic bottle	

## Ammonium phosphate monobasic > RE - Pure

**RE**

Description ..... White crystals      Chloride ..... ≤ 100 ppm      Sulphate ..... ≤ 100 ppm      Assay (acidimetric) ..... ≥ 98 %  
 Identification ..... Positive      Water-insoluble matter ..... ≤ 100 ppm      As ..... ≤ 2 ppm  
 pH sol. 5% at 25° C ..... 3.7 ÷ 4.3      Heavy metals (Pb) ..... ≤ 50 ppm      Fe ..... ≤ 50 ppm

Code	Size	Packaging	Notes
314507	1 kg	Plastic bottle	
314505	5 kg	Plastic jar	
314504	25 kg	Sack	

Ammonium rhodanide ► Ammonium thiocyanate

Ammonium sodium hydrogen phosphate ► Sodium ammonium hydrogen phosphate



## Ammonium sulfamate

Ammonio solfammato • Ammonium sulfamate • Amonio sulfamato

$NH_4SO_3NH_2$   
 Molecular Weight: 114,12  
 CAS: 7773-06-0  
 EEC-N: 231-871-7

H302  
 P264-P270-P330-P301+P312-P501a

## Ammonium sulfamate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... White crystals      Melting point ..... 131.0 ÷ 135.0 °C      Water-insoluble matter ..... ≤ 200 ppm      Assay (oxidimetric) ..... ≥ 98.0 %  
 Identification ..... Positive      Residue on ignition ..... ≤ 0.1 %      Heavy metals (Pb) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
420724	100 g	Glass bottle	
420725	500 g	Glass bottle	



## Ammonium sulfate

Ammonio solfato • Ammonium sulfate • Amonio sulfato

Synonym:  
Mascagnite

(NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 132,14  
CAS: 7783-20-2  
EEC-N: 231-984-1



### Warning

H315-H319-H335  
P261-P280-P305+P351+P338-P405-P501a

### Ammonium sulfate > RPE - For analysis - ISO - Reag.Ph.Eur.

**RPE**

Description ..... White crystals      Water-insoluble matter ..... ≤50 ppm      Phosphate ..... ≤5 ppm      Fe ..... ≤5 ppm  
Identification ..... Positive      Residue on ignition ..... ≤100 ppm      Nitrate ..... ≤10 ppm      Assay (acc.to Sørensen) ..... ≥99.0 %  
pH sol. 5% at 25° C ..... 5.0 ÷ 6.0      Chloride ..... ≤5 ppm      Heavy metals (Pb) ..... ≤5 ppm

Code	Size	Packaging	Notes
420775	100 g	Plastic bottle	
420776	500 g	Plastic bottle	
420777	1 kg	Plastic bottle	
420772	5 kg	Plastic jar	
420771	25 kg	Plastic bucket	
420774	50 kg	Fibre drum	

### Ammonium sulfate > RE - Pure

**RE**

Description ..... White crystals      Chloride ..... ≤ 3 ppm      Ca ..... ≤ 10 ppm      Residue on calcination ..... ≤ 0.01 % (S04)  
Identification ..... Positive      Nitrate ..... ≤ 10 ppm      Fe ..... ≤ 5 ppm      Assay ..... ≥ 99.0 %  
pH sol. 5% at 20° C ..... 5 ÷ 6      Phosphate ..... ≤ 5 ppm      Heavy metals (Pb) ..... ≤ 5 ppm

Code	Size	Packaging	Notes
316257	1 kg	Plastic bottle	
316251	5 kg	Plastic jar	
316252	25 kg	Plastic bucket	



## Ammonium L(+)-tartrate

Ammonio L(+)-tartrato • Ammonium L(+)-tartrate • Amonio L(+)-tartrato

Synonym:  
L-(+)-Tartaric acid diammonium salt  
Diammonium tartrate

(CHOHCOONH<sub>4</sub>)<sub>2</sub>  
Molecular Weight: 184,15  
CAS: 3164-29-2  
EEC-N: 221-618-9

### Ammonium L(+)-tartrate > RPE - For analysis

**RPE**

Description ..... White crystalline powder      Water-insoluble matter ..... ≤50 ppm      As ..... ≤0.5 ppm      Ni ..... ≤1 ppm  
Identification ..... Positive      Heavy metals (Pb) ..... ≤5 ppm      Ca ..... ≤200 ppm      Pb ..... ≤1 ppm  
pH sol. 2% at 25° C ..... 6.0 ÷ 7.0      Residue on ignition ..... ≤100 ppm      Cu ..... ≤1 ppm      Zn ..... ≤1 ppm  
Chloride ..... ≤5 ppm      Total sulphur ..... ≤50 ppm      Fe ..... ≤2 ppm      Assay (acc.to Sørensen) ..... ≥99 %  
Total phosphorus ..... ≤5 ppm      Al ..... ≤20 ppm      Mg ..... ≤20 ppm

Code	Size	Packaging	Notes
421206	500 g	Plastic bottle	



## Ammonium tetraborate trihydrate

Ammonio tetraborato triidrato • Ammonium tétraborate trihydraté • Amonio tetraborato trihidrato

NH<sub>4</sub>HB<sub>4</sub>O<sub>7</sub>·3H<sub>2</sub>O  
Molecular Weight: 228,33  
CAS: 12007-58-8  
EEC-N: 234-513-8



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Ammonium tetraborate trihydrate > RPE - For analysis

**RPE**

Description ..... White crystalline powder      Phosphate ..... ≤10 ppm      As ..... ≤1 ppm      Na ..... ≤50 ppm  
Identification ..... Positive      Water-insoluble matter ..... ≤30 ppm      Ca ..... ≤50 ppm      Assay (ex ammonium) ..... 97 ÷ 105 %  
pH sol. 5% at 25° C ..... 7.5 ÷ 8.5      Heavy metals (Pb) ..... ≤10 ppm      Fe ..... ≤2 ppm      Assay(ex Boric acid) ..... 97 ÷ 105 %  
Carbonate ..... ≤20 ppm      Nitrate ..... ≤5 ppm      K ..... ≤50 ppm  
Chloride ..... ≤3 ppm      Sulphate ..... ≤30 ppm      Mg ..... ≤20 ppm

Code	Size	Packaging	Notes
419127	1 kg	Plastic bottle	



## Ammonium thiocyanate

Ammonio solfocianuro • Ammonium thiocyanate • Amonio solfocianuro

Synonym:  
Ammonium rhodanide

NH<sub>4</sub>SCN  
Molecular Weight: 76,12  
CAS: 1762-95-4  
EEC-N: 217-175-6



**Warning**  
H302-H312-H332-HEU032  
P264-P271-P261-P280h-P304+P340-P330

### Ammonium thiocyanate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description ..... White crystals      Water-insoluble matter ..... ≤50 ppm      Chloride ..... ≤50 ppm      Fe ..... ≤3 ppm  
Identification ..... Positive      Residue on ignition ..... ≤250 ppm      Sulphate ..... ≤50 ppm      Assay (argentimetric) ..... ≥97.5 %  
pH sol. 5% at 25° C ..... 4.5 ÷ 6.0      Reducing iodine ..... ≤0.004 meq/g      Heavy metals (Pb) ..... ≤5 ppm

Code	Size	Packaging	Notes
420885	250 g	Plastic bottle	
420886	500 g	Plastic bottle	
420887	1 kg	Plastic bottle	

### Ammonium thiocyanate > RE - Pure

**RE**

Description ..... White crystals      Sulphated ash ..... ≤ 0.03 %      Sulphate ..... ≤ 50 ppm      Assay (argentimetric) ..... ≥ 99 %  
Identification ..... Positive      S ..... ≤ 20 ppm      Fe ..... ≤ 2 ppm

Code	Size	Packaging	Notes
316307	1 kg	Plastic bottle	
316308	5 kg	Plastic jar	
316303	25 kg	Plastic bucket	



## Ammonium thiocyanate 0.1 mol/l (0.1N)

Ammonio solfocianuro 0,1 mol/l (0.1N) • Ammonium thiocyanate 0.1 mol/l (0.1N) • Amonio solfocianuro 0.1 mol/l (0.1N)

NH<sub>4</sub>SCN  
Molecular Weight: 76,12  
CAS: 1762-95-4

### Ammonium thiocyanate 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613000501	500 ml	Plastic bottle	Ref Ph.Eur 3000500
613000500	1 l	Plastic bottle	Ref Ph.Eur 3000500

### Ammonium thiocyanate 0.1 mol/l (0.1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Assay (potentiometry) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
420977	1 l	Plastic bottle	

**7,612 g of NH<sub>4</sub>SCN. Volumetric solution ready-to-use: 0,1 N. Stabilized with p-oxybenzoate**

### Ammonium thiocyanate 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
421001		Plastic ampoule	Volume : 55 ml

**7,612 g of NH<sub>4</sub>SCN. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Ammonium thiocyanate 0.01 mol/l (0.01N)

Ammonio solfocianuro 0,01 mol/l (0.01N) • Ammonium thiocyanate 0.01 mol/l (0.01N) • Amonio solfocianuro 0.01 mol/l (0.01N)

NH<sub>4</sub>SCN  
Molecular Weight: 76,12  
CAS: 1762-95-4

### Ammonium thiocyanate 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ± 1.005

Code	Size	Packaging	Notes
421061		Plastic ampoule	Volume : 55 ml

**0,7612 g of NH<sub>4</sub>SCN. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**



## n-Amyl alcohol

Alcole n-amílico • Alcool n-amylique • Alcohol n-amílico

Synonym:  
1-Pentanol  
Pentyl alcohol

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>2</sub>OH  
Molecular Weight: 88,15  
CAS: 71-41-0  
EEC-N: 200-752-1

**Classification transport**  
ONU: 1105  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H332-H315-H335  
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### n-Amyl alcohol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Boiling point ..... 137.6 ÷ 138.6 °C Cu ..... ≤0.05 ppm Na ..... ≤1 ppm  
Identification ..... Positive Water (K.F) ..... ≤0.2 % Fe ..... ≤0.5 ppm Pb ..... ≤0.1 ppm  
Density at 20° C ..... 0.816 ÷ 0.818 Residue on evaporation ..... ≤10 ppm K ..... ≤0.5 ppm Zn ..... ≤0.5 ppm  
Refractive index at 20°C ..... 1.4081 ÷ 1.4121 Ca ..... ≤0.5 ppm Mg ..... ≤0.5 ppm Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
413783	1 l	Glass bottle	

### n-Amyl alcohol > RE - Pure

RE

Description ..... Clear colourless liquid Density at 20° C ..... 0.815 ÷ 0.819 Water (K.F) ..... ≤0.2 %  
Identification ..... Positive Refractive index at 20°C ..... 1.4061 ÷ 1.4141 Assay (GLC) ..... ≥98.5 %

Code	Size	Packaging	Notes
307901	1 l	Glass bottle	



## tert-Amyl alcohol

Alcole ter-amílico • Alcool tert-amylique • Alcohol ter-amílico

Synonym:  
Tert-pentyl alcohol  
2-Methyl-2-butanol

(CH<sub>3</sub>)<sub>2</sub>C(OH)CH<sub>2</sub>CH<sub>3</sub>  
Molecular Weight: 88.151  
CAS: 75-85-4  
EEC-N: 200-908-9

**Classification transport**  
ONU: 1105  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H332-H315-H335  
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### tert-Amyl alcohol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Boiling point ..... 101.3 ÷ 102.8 °C Alkalinity (NH<sub>3</sub>) ..... ≤5 ppm Subst. reducing KMnO<sub>4</sub> ..... ≤200 ppm  
Identification ..... Positive Residue on evaporation ..... ≤10 ppm Indole base ..... ≤0.1 ppm Cu ..... ≤0.5 ppm  
Ready carbonizable substances ..... Conform Acids and esters ..... ≤500 ppm Organic base (N) ..... ≤7 ppm Fe ..... ≤0.5 ppm  
Density at 20° C ..... 0.808 ÷ 0.810 Acidity (valerianic.ac) ..... ≤50 ppm Carbonyl Compounds (CO) ..... ≤80 ppm Assay (GLC) ..... ≥99.5 %  
Refractive index at 20°C ..... 1.4027 ÷ 1.4077 Water (K.F) ..... ≤0.2 % Pyridine and homologues ..... ≤30 ppm

Code	Size	Packaging	Notes
413941	250 ml	Glass bottle	
413944	1 l	Glass bottle	
413945	25 l	Plastic tank	



**Aniline blue soluble in water**

Blu anilina solubile in acqua • Bleu d'aniline soluble dans l'eau • Azul de anilina soluble en agua

$C_{32}H_{25}N_3Na_2O_9S_3$   
 Molecular Weight: 737,74  
 CAS: 28631-66-5  
 EEC-N: 249-113-9

**Warning**

H302-H312-H332  
 P264-P271-P280-P261-P304+P340-P330

**Aniline blue soluble in water > RPE - For analysis - C.I. 42755****RPE**

Description ..... Violet powder Identification ..... Positive

Code	Size	Packaging	Notes
428582	25 g	Glass bottle	

**Dye for microscopy (botanical-cytology-histology). Indicator acid - base (pH 9.4 ÷ 14.0)****Aniline hydrochloride**

Anilina cloridrato • Aniline chlorhydrate • Anilina clorhidrato

$C_6H_5NH_2 \cdot HCl$   
 Molecular Weight: 129,59  
 CAS: 142-04-1  
 EEC-N: 205-519-8

**Classification transport**

ONU: 1548  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**

H301-H311-H331-H318-H317-H341-H351-  
 H372-H400  
 P264-P273-P271-P304+P340-P305+P351+P338-  
 P301+P310a

**Aniline hydrochloride > RPE - For analysis****RPE**

Description ..... White crystalline powder Identification ..... Positive Melting point ..... 196 ÷ 199 ° C Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
422376	500 g	Plastic bottle	

**Anisaldehyde**

Aldeide anisica • Aldéhyde anisique • Aldehído anísico

Synonym:  
*p*-Anisaldehyde  
 4-Methoxybenzaldehyde

$4-CH_3OC_6H_4CHO$   
 Molecular Weight: 136,15  
 CAS: 123-11-5  
 EEC-N: 204-602-6

**Warning**

H302  
 P264-P270-P330-P301+P312a-P501a

**Anisaldehyde > RE - Pure****RE**Description ..... Clear yellow liquid Density at 20° C ..... 1.121 ÷ 1.125 Assay (GLC) ..... ≥99 %  
 Identification ..... Positive Refractive index at 20°C ..... 1.5710 ÷ 1.5750

Code	Size	Packaging	Notes
415312	100 ml	Glass bottle	

**Anisaldehyde solution**

Aldeide anisica soluzione • Aldéhyde anisique solution • Aldehído anísico solución

**Classification transport**

ONU: 1993

**Anisaldehyde solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611007301	100 ml	Glass bottle	Ref Ph.Eur 1007301
611007302	100 ml	Glass bottle	Anisaldehyde solution R1 Ref Ph.Eur 1007302



## Anisic acid

Acido anisico • Acide anisique • Acido anísico

Synonym:  
4-Methoxybenzoic acid  
Draconic acid

$\text{CH}_3\text{OC}_6\text{H}_4\text{COOH}$   
Molecular Weight: 152,15  
CAS: 100-09-4  
EEC-N: 202-818-5



### Warning

H302-H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P330-  
P332+P313

### Anisic acid > RPE - For analysis

RPE

Description ..... White to slightly grey - beige powder Identification ..... Positive Melting point ..... 181 ÷ 186 °C Assay (GLC) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
402132	25 g	Glass bottle	
402133	100 g	Glass bottle	



## Anthrone

Antrone • Anthrone • Antrona

Synonym:  
9(10H)-Anthracenone

$\text{C}_6\text{H}_4\text{COC}_6\text{H}_4\text{CH}_2$   
Molecular Weight: 194,23  
CAS: 90-44-8  
EEC-N: 201-994-0



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Anthrone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellow crystals Identification ..... Positive Melting point ..... 154 ÷ 158 °C Solub. ty in Dieth. Ether ..... Conform Absorbance of reag. sol. .... Conform Sens. to carbohydrates ..... Conform

Code	Size	Packaging	Notes
423281	10 g	Glass bottle	
423282	25 g	Glass bottle	

For the determination of carbohydrates



## Antimony, powder

Antimonio, polvere • Antimoine, poudre • Antimonio, polvo

Sb  
Molecular Weight: 121,75  
CAS: 7440-36-0  
EEC-N: 231-146-5

### Classification transport

ONU: 2871  
Transport Hazard class: 6.1  
Packing group III



H411  
P273-P391-P501a

### Antimony, powder > RPE - For analysis

RPE

Description ..... Grey powder Identification ..... Positive Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
422782	50 g	Glass bottle	
422786	500 g	Glass bottle	



## Antimony standard solution

Antimonio standard soluzione • Antimoine standard solution • Antimonio, solución patrón

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group II



### Danger

H314-H319-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Antimony standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000400	100 ml	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5000400

## Antimony standard solution &gt; RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505832	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505835	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid
505833	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Antimony standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503891	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503899	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503895	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503893	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503898	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
503897	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Antimony standard solution &gt; RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497415	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507525	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507479	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
E497411	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Antimony standard solution &gt; RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
422731		Plastic ampoule	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package



## Antimony potassium tartrate

Antimonio potassio tartrato • Antimoine potassium tartrate • Antimonio y potasio tartrato

Synonym:

Potassium antimonyl tartrate trihydrate

$C_4H_2KO_6Sb_6 \cdot 1,5H_2O$   
Molecular Weight: 667,87  
CAS: 28300-74-5

**Classification transport**  
ONU: 1551  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H302-H332-H411  
P264-P273-P271-P261-P304+P340-P330

## Antimony potassium tartrate &gt; RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... White crystalline powder Chloride..... ≤ 0.005 % Loss on drying (105°C)..... ≤ 2.7 %  
Identification ..... Positive Fe ..... ≤ 0.001 % As ..... ≤ 0.015 %  
pH sol. 2% at 20°C ..... 3.8 - 4.5 Water insoluble substances..... ≤ 0.05 % Assay (iodometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
423035	250 g	Plastic bottle	
423036	500 g	Plastic bottle	
423037	1 kg	Plastic bottle	



## Antimony trichloride

Antimonio tricloruro • Antimoine trichlorure • Antimonio tricloruro

Synonym:

Antimony(III) chloride



Molecular Weight: 228,11

CAS: 10025-91-9

### Classification transport

ONU: 2922

Transport Hazard class: 8

Packing group II



### Danger

H302-H310-H331-H314-H318-H351-H361d-H335-

H372-H412-HEU301

P264-P273-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

### Antimony trichloride > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611007701	100 ml	Glass bottle	Ref Ph.Eur 1007701

### Antimony trichloride > RPE - For analysis - ACS

RPE

Description ..... White crystals Sulphate ..... ≤ 50 ppm Cu ..... ≤ 10 ppm Na ..... ≤ 200 ppm  
 Identification ..... Positive As ..... ≤ 200 ppm Fe ..... ≤ 20 ppm Pb ..... ≤ 50 ppm  
 Chloroform insoluble ..... ≤ 500 ppm Ca ..... ≤ 50 ppm K ..... ≤ 100 ppm Assay (iodometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
422834	100 g	Glass bottle	
422835	250 g	Glass bottle	



## Aqueous calcium hydroxide

Acqua di calce • Eau de chaux • Calcio hidróxido acuoso

### Aqueous calcium hydroxide > RPE - For analysis

RPE

Description ..... Clear liquid Identification ..... Positive Assay ..... 0.140 ÷ 0.169 % (p/p)

Code	Size	Packaging	Notes
E411921	1 l	Plastic bottle	



## Acquovitrex-Erba

Acquovitrex-Erba • Acquovitrex-Erba • Acquovitrex-Erba

HEU210

### Acquovitrex-Erba > RS - Aqueous mounting medium for histology

RS

Description ..... Yellow clear liquid Identification ..... Positive Density at 20° C ..... 1.01 ÷ 1.02 Refractive index at 20°C ..... 1.34 ÷ 1.36

Code	Size	Packaging	Notes
412194	6 x 100 ml	Glass bottle	

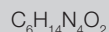


## L(+)-Arginine

L(+)-Arginina • L(+)-Arginine • L(+)-Arginina

Synonym:

(S)-2-Amino-5-guanidinopentanoic acid



Molecular Weight: 174,2

CAS: 74-79-3

EEC-N: 200-811-1



### Warning

H319

P264-P280i-P305+P351+P338-P337+P313

### L(+)-Arginine > RPE - For analysis

RPE

Description ..... White crystalline powder Melting point ..... ≥ 230 ° C Assay (non-aqueous medium) ..... ≥ 98 %  
 Identification ..... Positive Specific optical rotation ..... +26.3 ÷ +27.7 °

Code	Size	Packaging	Notes
424271	100 g	Glass bottle	



### L(+)-Arginine monohydrochloride

L(+)-Arginina monocloridato • L(+)-Arginine monochlorhydraté • L(+)-Arginina monoclorhidrato

Synonym:

(S)-(+)-2-Amino-5-[(aminoiminomethyl)amino]pentanoic acid monohydrochloride

$C_6H_{14}N_4O_2 \cdot HCl$   
Molecular Weight: 210,66  
CAS: 1119-34-2  
EEC-N: 214-275-1



#### Warning

H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

#### L(+)-Arginine monohydrochloride > RPE - For analysis

RPE

Description ..... White powder    Loss on drying ..... ≤ 0.2 %    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 10 ppm  
Identification ..... Positive    Ammonium ..... ≤ 200 ppm    Residue on ignition ..... ≤ 0.1 %    Assay (non-aqueous medium) .98.5 ÷ 101.0  
Potere rotat. spec. (c=8; HCl 6N) .. +21.4 ÷    Water-insoluble matter ..... ≤ 100 ppm    Sulphate ..... ≤ 300 ppm    % s.s.

Code	Size	Packaging	Notes
424268	5 g	Glass bottle	



### Arsenazo III

Arsenazo III • Arsenazo III • Arsenazo III

Synonym:

2,7-Bis(2-arsonophenylazo)chromotropic acid

$C_{22}H_{16}As_2N_4O_{14}S_2Na_2$   
Molecular Weight: 774,36  
CAS: 1668-00-4  
EEC-N: 216-788-6

#### Classification transport

ONU: 3465  
Transport Hazard class: 6.1  
Packing group II



#### Danger

H301-H331-H410  
P264-P273-P271-P304+P340-P301+P310a-P330

#### Arsenazo III > RPE - For analysis

RPE

Description ..... Brown granular powder    Identification ..... Positive    Sens.as complex.indicat ..... Conform

Code	Size	Packaging	Notes
424281	1 g	Glass bottle	
424282	25 g	Glass bottle	

Suitable for determination of Th, Zr, U, Cd, Zn, Ca



### Arsenic standard solution

Arsenico standard soluzione • Arsenic standard solution • Arsenic, solución patrón



#### Danger

H350-HA26  
P280-P201-P202-P308+P313-P405-P501a

#### Arsenic standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000501	100 ml	Plastic bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5000501
615000502	100 ml	Plastic bottle	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5000502
615000509	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000500

#### Arsenic standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505312	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505315	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505313	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Arsenic standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503421	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503425	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503423	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503427	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Arsenic standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
504439	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507496	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Arsenic trioxide solution

Arsenico triossido soluzione • Arsenic trioxyde solution • Arsénico trióxido solución

Synonym:  
Arsenic(III) oxide  
Arsenic trioxide

As<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 197.84  
CAS: 1327-53-3

## Arsenic trioxide solution > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
61700001	100 ml	Plastic bottle	Arsenic trioxyde stock solution



## L(+)-Ascorbic acid

Acido L(+)-ascorbico • Acide L(+)-ascorbique • Acido L(+)-ascórbico

Synonym:  
Vitamin C  
L-Threoscorbic acid

COCOH:COHCHCHOHCH<sub>2</sub>OH  
Molecular Weight: 176,13  
CAS: 50-81-7  
EEC-N: 200-066-2

## L(+)-Ascorbic acid > RPE - For analysis - ISO

RPE

Description .....	White crystal. powder	Loss on drying .....	≤ 0.1 %	Residue on ignition .....	≤ 300 ppm	Pb .....	≤ 0.5 ppm
Identification .....	Positive	Chloride .....	≤ 50 ppm	Sulphate .....	≤ 20 ppm	Assay (oxidimetric) .....	≥ 99.0 %
Melting point .....	190.5 ÷ 192.0 °C	Water-insoluble matter .....	≤ 30 ppm	Cu .....	≤ 0.3 ppm		
Specific optical rotation...	+20.5 ÷ +21.5 °	Heavy metals (Pb) .....	≤ 10 ppm	Fe .....	≤ 2 ppm		

Code	Size	Packaging	Notes
402404	100 g	Plastic bottle	
402406	500 g	Plastic bottle	
402407	1 kg	Plastic bottle	



## L(+)-Asparagine

L(+)-Asparagina • L(+)-Asparagine • L(+)-Asparagina

Synonym:  
(S)-(+)-2-Aminosuccinamic acid  
L-Aspartic acid 4-amide

C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>·H<sub>2</sub>O  
Molecular Weight: 150,14  
CAS: 5794-13-8

## L(+)-Asparagine > RPE - For analysis

RPE

Description .....	White crystalline powder	Loss on drying .....	11.5 ÷ 12.5 %	As .....	≤ 1 ppm	Chloride .....	≤ 0.02 %
Identification (I.R.) .....	Positive	Residue on ignition .....	≤ 0.1 %	Fe .....	≤ 10 ppm	Sulphate .....	≤ 0.03 %
Specific optical rotation...	+33.5 ÷ +36.5 °	Heavy metals (Pb) .....	≤ 10 ppm	Ammonium .....	≤ 0.1 %	Assay (non-aqueous medium)	98.5 ÷ 101.0 % (s.s.)

Code	Size	Packaging	Notes
424544	100 g	Glass bottle	
424547	1 kg	Plastic bottle	



## L(+)-Aspartic acid

Acido L(+)-aspartico • Acide L(+)-aspartique • Acido L(+)-aspártico

Synonym:

(S)-(+)-Aminosuccinic acid

(S)-Aminobutanedioic acid

HOOCCHNH2CH2COOH

Molecular Weight: 133,1

CAS: 56-84-8

EEC-N: 200-291-6

### L(+)-Aspartic acid > RE - Pure

RE

Description .....	White crystalline powder	Loss on drying .....	≤ 0.2 %	Sulphate .....	≤ 300 ppm	Heavy metals (Pb) .....	≤ 10 ppm
Identification .....	Positive	Ammonium .....	≤ 500 ppm	As .....	≤ 1 ppm	Residue on ignition .....	≤ 0.1 %
Potere rotat. spec. (c=8; HCl 6N) .....	+24 ÷ +26 °	Chloride .....	≤ 200 ppm	Fe .....	≤ 10 ppm	Assay (non-aqueous medium) ≥	98.0 % (s.s.)

Code	Size	Packaging	Notes
402442	25 g	Glass bottle	



## ASTM colour standards

Standard del colore ASTM • Etalons couleurs ASTM • Patrones de color ASTM

### Classification transport

ONU: 2810

Transport Hazard class: 6.1

Packing group II



### Danger

H300-H304

P264-P270-P301+P310a-P330-P331-P321

### ASTM colour standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540601	100 ml	Glass bottle	Sample A1
540602	100 ml	Glass bottle	Sample A3
540603	100 ml	Glass bottle	Sample A5
540604	100 ml	Glass bottle	Sample A5



## Ausilab 110

Ausilab 110 • Ausilab 110 • Ausilab 110



### Warning

H319-HEU208

P264-P280i-P305+P351+P338-P337+P313

### Ausilab 110 > RE - Pure - For glassware manual washing

RE

Code	Size	Packaging	Notes
FG201149	4 x 5 kg	Plastic tank	

**Multi-purpose detergent concentrate liquid, neutral. Contains : Anionic surfactants (15-30%), less than 5% emollients. Use : diluted in water, very foaming**



## Ausilab 140

Ausilab 140 • Ausilab 140 • Ausilab 140



### Danger

H315-H318

P264-P280g-P280i-P305+P351+P338-P332+P313-P302+P352a

### Ausilab 140 > RE - Pure - For glassware manual washing

RE

Code	Size	Packaging	Notes
FG201220	4 x 5 kg	Plastic tank	

**Degreaser concentrate, liquid, alkaline. Contains : EDTA and salts (5-15%), non-ionic surfactants (5-15%). Use : diluted in water**



## Ausilab 210

Ausilab 210 • Ausilab 210 • Ausilab 210



### Danger

H315-H318  
P264-P280g-P280i-P305+P351+P338-P332+P313-  
P302+P352a

**Ausilab 210 > RE - Pure - For glassware washers**

**RE**

Code	Size	Packaging	Notes
FG201138	8 kg	Plastic bucket	

**Detergent for glassware washers, powder, alkaline (suitable for use in the food industry). Contains : over than 30% of phosphates, less than 5% non-ionic surfactants. Use : concentration as dirt and water hardness**



## Ausilab 250

Ausilab 250 • Ausilab 250 • Ausilab 250



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

**Ausilab 250 > RE - Pure - For glassware washers**

**RE**

Code	Size	Packaging	Notes
FG201139	4 x 5 kg	Plastic tank	

**Neutralizing detergent for glassware washers, liquid, acid. Contains : over than 30% of organics acids. Use : for washers with automatic metering**



## Ausilab 260

Ausilab 260 • Ausilab 260 • Ausilab 260

NaCl  
Molecular Weight: 58.44  
CAS: 7647-14-5

**Ausilab 260 > RE - Pure - For glassware washers**

**RE**

Code	Size	Packaging	Notes
FG20C1156C5	5 kg	Plastic bucket	

**Regenerating salt for dishwashers**



## Ausilab 280

Ausilab 280 • Ausilab 280 • Ausilab 280

Classification transport  
ONU: 1719  
Transport Hazard class: 8  
Packing group III



### Danger

H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

**Ausilab 280 > RE - Pure - For glassware washers**

**RE**

Code	Size	Packaging	Notes
FG201151	4 x 5 kg	Plastic tank	

**Dishwashing detergent, liquid, alkaline (suitable for use in the food industry). Contains : over than 30% E.D.T.A., NaOH (5-15%). Use : For dishwashers with automatic metering**



## Ausilab 290

Ausilab 290 • Ausilab 290 • Ausilab 290

**Ausilab 290 > RE - Pure - For glassware washers**

**RE**

Code	Size	Packaging	Notes
FG201200	4 x 6 kg	Plastic tank	

**Dishwashing detergent, liquid, alkaline, manufactured according to Ecocert standard. Contains : over than 30% Citrates and gluconates, NaOH (5-15%). Use : For dishwashers with automatic metering**





## Ausilab 310

Ausilab 310 • Ausilab 310 • Ausilab 310

**Classification transport**  
 ONU: 1903  
 Transport Hazard class: 8  
 Packing group III



**Danger**  
 H314-H410-HEU031  
 P264-P273-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

**Ausilab 310 > RE - Pure - For surfaces disinfection**

**RE**

Code	Size	Packaging	Notes
FG200074	4 x 6 kg	Plastic tank	

**Chlorinated detergent bactericidal fungicide, liquid, alkaline. Contains sodium hypochlorite, sodium hydroxide and less than 5% non-ionic surfactants and phosphonates. Use : Direct spray of pure or diluted product, dipping bath, cleaning of circuits**



## Ausilab 320

Ausilab 320 • Ausilab 320 • Ausilab 320

**Classification transport**  
 ONU: 1903  
 Transport Hazard class: 8  
 Packing group III



**Danger**  
 H315-H318-H410  
 P264-P273-P280g-P280i-P305+P351+P338-  
 P332+P313

**Ausilab 320 > RE - Pure - For surfaces disinfection**

**RE**

Code	Size	Packaging	Notes
FG200075	4 x 5 kg	Plastic tank	

**Bactericidal detergent, liquid, acid. Contains : Dodecylmethylammonium chloride, aliphatic alcohol and organic acid (5-15%), less than 5% non-ionic surfactants. Use : Direct spray of pure or diluted product, dipping bath, cleaning of circuits**



## Ausilab 330

Ausilab 330 • Ausilab 330 • Ausilab 330

**Classification transport**  
 ONU: 1903  
 Transport Hazard class: 8  
 Packing group III



**Danger**  
 H314-H410  
 P264-P273-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

**Ausilab 330 > RE - Pure - For surfaces disinfection**

**RE**

Code	Size	Packaging	Notes
FG200276	4 x 5 kg	Plastic tank	

**Bactericidal detergent fungicide, liquid, alkaline. Contains : Dodecylmethylammonium chloride, aliphatic alcohol (5-15%), 2-aminoethanol, Less than 5% non-ionic surfactants and EDTA. Use : Direct spray of pure or diluted product, dipping bath, cleaning of circuits**



## Ausilab 400

Ausilab 400 • Ausilab 400 • Ausilab 400

**Classification transport**  
 ONU: 1987  
 Transport Hazard class: 3  
 Packing group III



**Warning**  
 H226-H319  
 P210-P241-P264-P303+P361+P353-  
 P305+P351+P338-P403+P235

**Ausilab 400 > RE - Pure - For hand washing cream**

**RE**

Code	Size	Packaging	Notes
FG201146	6 x 800 ml	Bag	

**Alcoholic sanitizing gel, neutral. Contains : over 50% than alcohols, moisturizing agents (5-15%), benzalkonium chloride (0-1%). Use : Pure**

a

b

c

d

e

f

g

h

i

j

k

l

m

n

o

p

q

r

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t

u

v

w

x

y

z



## Ausilab 500

Ausilab 500 • Ausilab 500 • Ausilab 500



### Danger

H315-H318-HEU208  
P264-P280g-P280i-P305+P351+P338-P332+P313-  
P302+P352a

**Ausilab 500 > RE - Pure - For washing**

**RE**

Code	Size	Packaging	Notes
FG201140	15 x 750 ml	Bag	

**Purpose cleaner. Contains between 5 and 15% of alcohols, less than 5% non-ionic surfactants. Use : Direct spray of pure product**



## Azobenzene

Azobenzene • Azobenzène • Azobenceno



Molecular Weight: 182,23

CAS: 103-33-3

EEC-N: 203-102-5

### Classification transport

ONU: 3077

Transport Hazard class: 9

Packing group III



### Danger

H302-H332-H341-H350-H373-H410-HA26  
P264-P273-P271-P280-P304+P340-P308+P313



**Azobenzene > RPE - For analysis**

**RPE**

Description . Red-orange crystalline powder Identification ..... Positive Melting point..... 67 ÷ 69 ° C Assay (oxidimetric) ..... 98 ÷ 100 %

Code	Size	Packaging	Notes
424701	5 g	Glass bottle	
424702	100 g	Glass bottle	



## Azomethine H

Azometina H • Azométhine H • Azometino H



Molecular Weight: 445,4

CAS: 206752-32-1

Synonym:

4-Hydroxy-5-(2-hydroxybenzylideneamino)-naphthalene-2,7-disulfonic acid monosodium salt hydrate



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a

**Azomethine H > RPE - For analysis**

**RPE**

Description ..... Yellow orange powder Identification ..... Positive

Code	Size	Packaging	Notes
424691	10 g	Glass bottle	
424692	25 g	Glass bottle	

**Suitable for the determination of boron**



## Azure II

Azzurro II • Azur II • Azur II

CAS: 37247-10-2

### Classification transport

ONU: 2811

Transport Hazard class: 6.1

Packing group III



### Danger

H318  
P280-P305+P351+P338-P310a

**Azure II > RS - For microscopy - C.I. 52010/52015**

**RS**

Description ..... Polvere nera con riflessi verdi Maximum absorption ..... 645 ÷ 650 nm Loss on drying at 110°C..... ≤ 15 %  
Identification ..... Positive E 1% / 1 cm on dried substance ..... 1850 ÷ 2100

Code	Size	Packaging	Notes
424721	5 g	Glass bottle	

**Dye for bacteriology and hematology. Mix Azur - methylene blue**



## Azure II eosin

Azzurro II eosina • Azur II Eosine • Azur II Eosina

Synonym:  
Azure II eosinate

CAS: 53092-85-6

### Classification transport

ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



### Danger

H332-H318  
P271-P280-P261-P304+P340-P305+P351+P338-P310a

### Azure II eosin > RS - For microscopy - C.I. 52010/52015/45380

RS

Description ..... Polvere blu scuro      Maximum absorption (red) .. 520 ÷ 530 nm      Absorption ratio (red) ..... 1.00 ÷ 1.20      Loss on drying at 105°C..... ≤ 10 %  
Identification ..... Positive      Maximum absorption (blue). 645 ÷ 660 nm      Absorption ratio (blue)..... 1.25 ÷ 1.35

Code	Size	Packaging	Notes
424731	5 g	Glass bottle	

**Dye for bacteriology, hematology histopathology. Mix Azur - Methylene blue - eosin**

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z



## Barbituric acid

Acido barbiturico • Acide barbiturique • Acido barbitúrico

Synonym:  
2,4,6-Trihydroxypyrimidine

NHCONHCOCH<sub>2</sub>CO  
Molecular Weight: 128,12  
CAS: 67-52-7  
EEC-N: 200-658-0

### Barbituric acid > RPE - For analysis - Reag. Ph. Eur.

RPE

Description ..... White crystalline powder Identification ..... Positive Melting point..... 248 ÷ 255 ° C Assay (acidimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
402532	25 g	Glass bottle	
402535	250 g	Glass bottle	



## Barium standard solution

Bario standard soluzione • Baryum standard solution • Bario, solución patrón

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III

### Barium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000601	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5000601
615000609	100 ml	Plastic bottle	A 50 ppm solution : to dilute according to Ref Ph.Eur 5000600

### Barium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505327	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505328	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505329	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Barium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503451	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503455	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503453	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503457	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Barium standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507527	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497445	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507481	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497441	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Barium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
424861		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Barium acetate

Bario acetato • Baryum acétate • Bario acetato

Ba(CH<sub>3</sub>COO)<sub>2</sub>  
Molecular Weight: 255,42  
CAS: 543-80-6  
EEC-N: 208-849-0



### Warning

H302-H332  
P264-P271-P261-P304+P340-P330-P301+P312a

## Barium acetate > RPE - For analysis - ACS

RPE

K ..... ≤ 30 ppm Water-insoluble matter ..... ≤ 100 ppm Heavy metals (Pb) ..... ≤ 5 ppm Fe ..... ≤ 10 ppm  
Description ..... White crystalline powder Oxidizing subst.(NO<sub>3</sub>) ..... ≤ 50 ppm Ca ..... ≤ 500 ppm Sr ..... ≤ 0.2 %  
Identification ..... Positive Chloride ..... ≤ 10 ppm Na ..... ≤ 50 ppm Assay (complexometric) ..... 99.0 ÷ 102.0 %

Code	Size	Packaging	Notes
424895	100 g	Plastic bottle	
424896	500 g	Plastic bottle	
424897	1 kg	Plastic bottle	



## Barium carbonate

Bario carbonato • Baryum carbonate • Bario carbonato

BaCO<sub>3</sub>  
Molecular Weight: 197,34  
CAS: 513-77-9  
EEC-N: 208-167-3



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

## Barium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur.

RPE

Description ..... White powder Oxidizing subst.(NO<sub>3</sub>) ..... ≤ 50 ppm Ca ..... ≤ 500 ppm K ..... ≤ 50 ppm  
Identification ..... Positive Chloride ..... ≤ 20 ppm Fe ..... ≤ 20 ppm Na ..... ≤ 200 ppm  
Water-soluble titrable base ..... ≤ 0.002 meq/g Sulphide ..... ≤ 10 ppm Sr ..... ≤ 0.7 %  
HCl-insoluble matter ..... ≤ 150 ppm Heavy metals (Pb) ..... ≤ 10 ppm Assay (alkalimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
424945	250 g	Plastic bottle	
424943	25 kg	Plastic bucket	

## Barium carbonate > RE - Pure

RE

Description ..... Hazel-white powder Identification ..... Positive Fe ..... ≤ 50 ppm Assay (alkalimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
321507	1 kg	Plastic bottle	
321502	25 kg	Plastic bucket	



## Barium chloride dihydrate

Bario cloruro diidrato • Baryum chlorure dihydraté • Bario cloruro dihidratado

BaCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 244,27  
CAS: 10326-27-9  
EEC-N: 233-788-1

**Classification transport**  
ONU: 1564  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H332-H319  
P264-P271-P304+P340-P305+P351+P338-  
P301+P310a-P312a

### Barium chloride dihydrate > RPE - For analysis - ACS

**RPE**

Description ..... White crystals  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 5.2 ÷ 8.2  
Loss on drying 150° C ..... 14 ÷ 16 %  
Ammonium ..... ≤ 10 ppm  
Heavy metals (Pb) ..... ≤ 2.5 ppm  
Nitrate, Chlorate (NO<sub>3</sub>) ..... ≤ 10 ppm  
Ca ..... ≤ 20 ppm  
Cu ..... ≤ 1 ppm  
Fe ..... ≤ 1 ppm  
K ..... ≤ 40 ppm  
Na ..... ≤ 100 ppm  
Ni ..... ≤ 1 ppm  
Pb ..... ≤ 2 ppm  
Zn ..... ≤ 4 ppm  
Assay (argentimetric) ..... ≥ 99 %  
Water-insoluble matter ..... ≤ 0.05 %  
Substanc. not ppt H<sub>2</sub>SO<sub>4</sub> ..... ≤ 0.03 %  
Sr ..... ≤ 0.05 %

Code	Size	Packaging	Notes
425025	100 g	Plastic bottle	
425026	500 g	Plastic bottle	
425027	1 kg	Plastic bottle	
425029	5 kg	Plastic jar	
425022	25 kg	Plastic bucket	

### Barium chloride dihydrate > RE - Pure

**RE**

Description ..... White crystals  
Identification ..... Positive  
Assay (argentimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
321757	1 kg	Plastic bottle	
321758	5 kg	Plastic jar	
321752	25 kg	Plastic bucket	



## Barium chloride solution 10%

Bario cloruro soluzione 10% • Baryum chlorure solution 10% • Baryum chlorure solution 10%

BaCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 244,27  
CAS: 10326-27-9



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Barium chloride solution 10% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid  
Identification ..... Positive  
Density at 15° C ..... 1.08 ÷ 1.10  
Assay (argentimetric) ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E425101	1 l	Plastic bottle	

*Suitable for water analysis*



## Barium chloride solution 0.14%

Bario cloruro soluzione 0.14% • Baryum chlorure solution 0.14% • Baryum chlorure solution 0.14%

BaCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 244,27  
CAS: 10326-27-9

### Barium chloride solution 0.14% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid  
Identification ..... Positive

Code	Size	Packaging	Notes
E425171	1 l	Plastic bottle	

*Suitable for wine analysis according to Marty*



## Barium chloride 0.1 mol/l (0.2N)

Bario cloruro 0.1 mol/l (0.2N) • Baryum chlorure 0.1 mol/l (0.2N) • Bario cloruro 0.1 mol/l (0.2N)

BaCl<sub>2</sub>

HEU210

CAS: 10326-27-9

**Barium chloride 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613000600	1 l	Plastic bottle	Ref Ph.Eur 3000600



## Barium chloride solution 61 g/l

Bario cloruro soluzione 61 g/l • Baryum chlorure 61g/l • Bario cloruro solución 61 g/l

BaCl<sub>2</sub>

Molecular Weight: 208,25

CAS: 10361-37-2

**Barium chloride solution 61 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611009303	100 ml	Plastic bottle	Barium chloride solution R1 Ref Ph.Eur 1009301
611009309	250 ml	Plastic bottle	Barium chloride solution R1 Ref Ph.Eur 1009301
611009301	1 l	Plastic bottle	Barium chloride solution R1 Ref Ph.Eur 1009301



## Barium chloride 30g/L

Bario cloruro 30g/L • Baryum chlorure 30g/l • Bario cloruro 30g/L

BaCl<sub>2</sub>

Molecular Weight: 244.27

CAS: 10326-27-9

**Barium chloride 30g/L > RS - For analysis according to JP**

RS

Code	Size	Packaging	Notes
616001018	100 ml	Plastic bottle	Barium chloride TS

**Barium chloride 30g/L > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
617000161	100 ml	Plastic bottle	Barium chloride TS



## Barium hydroxide octahydrate

Bario idrossido ottaidrato • Baryum hydroxyde octahydraté • Bario hidróxido octahidrato

Ba(OH)<sub>2</sub>·8H<sub>2</sub>O

Molecular Weight: 315,48

CAS: 12230-71-6

EEC-N: 241-234-5

### Classification transport

ONU: 1564

Transport Hazard class: 6.1

Packing group III



### Danger

H302-H314-HEU071

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Barium hydroxide octahydrate > RPE - For analysis**

RPE

Description	White crystals	Chloride	≤10 ppm	Sulphide	≤5 ppm	Sr	≤1.5 %
Identification	Positive	HCl-insoluble matter	≤50 ppm	Ca	≤50 ppm	Assay (alkalimetric)	≥98.0 %
Carbonate	≤2.0 %	Heavy metals (Pb)	≤5 ppm	Fe	≤5 ppm		

Code	Size	Packaging	Notes
425295	100 g	Plastic bottle	
425296	500 g	Plastic bottle	
425297	1 kg	Plastic bottle	
425292	25 kg	Drum	

## Barium hydroxide octahydrate > RE - Pure

**RE**

Description ..... White crystals      Chloride ..... ≤100 ppm      Heavy metals (Pb) ..... ≤30 ppm      Assay (alkalimetric) ..... ≥95 %  
 Identification ..... Positive      HCl-insoluble matter ..... ≤500 ppm      Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
322007	1 kg	Plastic bottle	
322009	5 kg	Plastic jar	
322001	25 kg	Plastic bucket	
322004	50 kg	Plastic bucket	



## Barium hydroxide solution 5%

Bario idrossido soluzione 5% • Baryum hydroxyde solution 5% • Baryum hydroxyde solution 5%

Ba(OH)<sub>2</sub>·8H<sub>2</sub>O  
 Molecular Weight: 315,48  
 CAS: 12230-71-6

**Classification transport**  
 ONU: 1760  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H314  
 P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Barium hydroxide solution 5% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Density at 20° C ..... ≥1.03      Assay ..... 4.7 ÷ 5.3 % (p/p)

Code	Size	Packaging	Notes
E425301	1 l	Bottle	



## Barium hydroxide solution 47.3 g/l

Bario idrossido soluzione 47.3 g/l • Baryum hydroxyde solution 47.3 g/l • Bario hidróxido solución 47.3 g/l

Ba(OH)<sub>2</sub>·8H<sub>2</sub>O  
 Molecular Weight: 315,48  
 CAS: 12230-71-6

## Barium hydroxide solution 47.3 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611009409	250 ml	Plastic bottle	Ref Ph.Eur 1009401
611009401	1 l	Plastic bottle	Ref Ph.Eur 1009401



## Barium nitrate

Bario nitrato • Baryum nitrate • Bario nitrato

Ba(NO<sub>3</sub>)<sub>2</sub>  
 Molecular Weight: 261,34  
 CAS: 10022-31-8  
 EEC-N: 233-020-5

**Classification transport**  
 ONU: 1446  
 Transport Hazard class: 5.1  
 Packing group II



**Danger**  
 H272-H301-H332-H319  
 P221-P264-P210a-P271-P304+P340-P305+P351+P338

## Barium nitrate > RPE - For analysis - ACS

**RPE**

Description ..... White crystals      pH sol. 5% at 25° C ..... 5.0 ÷ 8.0      Fe ..... ≤ 5 ppm      Assay ..... ≥ 99.0 %  
 Identification ..... Positive      Chloride ..... ≤ 10 ppm      Ca ..... ≤ 0.005 %      Heavy metals (Pb) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
425342	500 g	Plastic bottle	
425347	1 kg	Plastic bottle	
425341	25 kg	Plastic bucket	





## Barium perchlorate trihydrate

Bario perclorato triidrato • Baryum perchlorate trihydraté • Bario perclorato trihidrato

Ba(ClO<sub>4</sub>)<sub>2</sub>·3H<sub>2</sub>O  
Molecular Weight: 390,29  
CAS: 10294-39-0  
EEC-N: 236-710-4

**Classification transport**  
ONU: 1447  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H271-H302-H332  
P210-P221-P264-P283-P271-P304+P340

### Barium perchlorate trihydrate > RPE - For analysis

RPE

Description	White crystals	Water-insoluble matter	≤100 ppm	Cu	≤25 ppm	Pb	≤25 ppm
Identification	Positive	Methyl alcohol insolub	≤100 ppm	Fe	≤3 ppm	Sr	≤0.6 %
Total nitrogen	≤20 ppm	Heavy metals (Pb)	≤5 ppm	K	≤100 ppm	Zn	≤20 ppm
Chlorate	≤300 ppm	Substances not ppt. H2S	≤0.1 %	Na	≤100 ppm	Assay (complexometric)	≥99.8 %
Chloride	≤10 ppm	Ca	≤100 ppm	Ni	≤25 ppm		

Code	Size	Packaging	Notes
425411	50 g	Glass bottle	



## Barium perchlorate 0.05 mol/l

Bario perclorato 0.05 mol/l • Baryum perchlorate 0.05 mol/l • Bario perclorato 0.05 mol/l

Ba(ClO<sub>4</sub>)<sub>2</sub>  
Molecular Weight: 336,23  
CAS: 13465-95-7

**Classification transport**  
ONU: 2924  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H315-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Barium perchlorate 0.05 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000700	1 l	Plastic bottle	Ref Ph.Eur 3000700



## Barium perchlorate 0.025 mol/l

Bario perclorato 0.025 mol/l • Baryum perchlorate 0.025 mol/l • Bario perclorato 0.025 mol/l

Synonym:  
*Barium diperchlorate*

Ba(ClO<sub>4</sub>)<sub>2</sub>  
Molecular Weight: 336,23  
CAS: 13465-95-7

### Barium perchlorate 0.025 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613009601	500 ml	Plastic bottle	Ref Ph.Eur 3009600
613009600	1 l	Plastic bottle	Ref Ph.Eur 3009600



## Barium peroxide

Bario perossido • Baryum péroxide • Bario peróxido

BaO<sub>2</sub>  
Molecular Weight: 169,34  
CAS: 1304-29-6  
EEC-N: 215-128-4

**Classification transport**  
ONU: 1449  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H302-H332  
P221-P264-P210a-P271-P280a-P304+P340

### Barium peroxide > RE - Pure

RE

Description	Hazel powder	Chloride	≤200 ppm	Heavy metals (Pb)	≤100 ppm	Fe	≤200 ppm
Identification	Positive	HCl-insoluble matter	≤2.5 %	Substances not ppt. H2S	≤1 %	Assay (oxidimetric)	≥85 %

Code	Size	Packaging	Notes
322401	1 kg	Plastic bottle	



## Barium sulfate

Bario solfato • Baryum sulfate • Bario sulfato

Synonym:  
Baryte

BaSO<sub>4</sub>  
Molecular Weight: 233,4  
CAS: 7727-43-7  
EEC-N: 231-784-4

### Barium sulfate > RPE - For analysis

RPE

Description .....	White powder	Total nitrogen .....	≤30 ppm	Silicate .....	≤20 ppm	Na .....	≤500 ppm
Identification .....	Positive	Chloride .....	≤300 ppm	As .....	≤1 ppm	Ni .....	≤5 ppm
Organic substances .....	Conform	Phosphate .....	≤10 ppm	Cd .....	≤5 ppm	Pb .....	≤5 ppm
Loss on ignition .....	≤1.5 %	Heavy metals (Pb) .....	≤10 ppm	Cu .....	≤5 ppm	Zn .....	≤10 ppm
Acidity (H <sub>2</sub> SO <sub>4</sub> ) .....	≤100 ppm	Soluble barium salts .....	≤50 ppm	Fe .....	≤20 ppm	Assay (complexometric) .....	≥97 %
Alkalinity(Ba idroside) .....	≤40 ppm	Soluble salts .....	≤0.2 %	K .....	≤100 ppm		

Code	Size	Packaging	Notes
425497	1 kg	Plastic bottle	

### Barium sulfate > RE - Pure

RE

Description .....	White powder	Chloride .....	≤0.1 %	Subst. reducing KMnO <sub>4</sub> .....	≤40 ppm(10m)
Identification .....	Positive	Phosphate .....	≤200 ppm	Fe .....	≤20 ppm
Loss on ignition .....	≤2 %	Nitrate .....	≤50 ppm	Zn .....	≤20 ppm

Code	Size	Packaging	Notes
322607	1 kg	Plastic bottle	

Baryte ► Barium sulfate

Basic violet 3 ► Crystal violet

Basic Violet 14 ► Fuchsin basic



## Bathophenanthroline sulfonate sodium salt

Batofenantrolina solfonato sale sodico • Bathophénanthroline sulfonate sodique • Batofenantrolina sulfonato sal sódico

Synonym:  
Bathophenanthroline disulfonic acid disodium salt hydrate  
4,7-Diphenyl-1,10-phenanthroline-disulfonic acid disodium salt trihydrate

C<sub>24</sub>H<sub>14</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>2</sub>·3H<sub>2</sub>O  
Molecular Weight: 536,5  
CAS: 52746-49-3  
EEC-N: 258-152-0

### Bathophenanthroline sulfonate sodium salt > RPE - For analysis

RPE

Description .....	Polvere nocciola	Identification .....	Positive	Residue on ignition .....	21 ÷ 27 %	Iron sensitivity .....	≤ 0.5 µg/ml
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Code	Size	Packaging	Notes
425601	0.5 g	Glass bottle	
425602	5 g	Glass bottle	

**Suitable for the determination of iron. Soluble in water**



## Benedict's reagent

Benedict reattivo • Réactif de Bénédicte • Reactivo de Benedict

H412  
P273-P501a

### Benedict's reagent > RS - For microscopy

RS

Description .....	Clear blue liquid	Identification .....	Positive
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Code	Size	Packaging	Notes
E425742	1 l	Glass bottle	

**Suitable for the qualitative determination of glucose in urine**



## Benzaldehyde

Aldeide benzoica • Aldéhyde benzoïque • Aldehído benzoico

Synonym:  
Bitter almond

$C_6H_5CHO$   
Molecular Weight: 106,12  
CAS: 100-52-7  
EEC-N: 202-860-4

**Classification transport**  
ONU: 1990  
Transport Hazard class: 9  
Packing group III



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Benzaldehyde > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... Clear colourless liquid or yellowish	Acidity (benzoic acid) ..... ≤1 %	Cu ..... ≤1 ppm	Na ..... ≤20 ppm
Identification ..... Positive	Total chlorine ..... ≤200 ppm	Fe ..... ≤1 ppm	Ni ..... ≤1 ppm
Density at 20° C ..... 1.041 ÷ 1.051	Ca ..... ≤5 ppm	K ..... ≤20 ppm	Pb ..... ≤1 ppm
Refractive index at 20°C. 1.5438 ÷ 1.5488	Cd ..... ≤1 ppm	Mg ..... ≤1 ppm	Zn ..... ≤1 ppm
Boiling point ..... 177.6 ÷ 178.6 ° C	Co ..... ≤1 ppm	Mn ..... ≤1 ppm	Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
415362	500 ml	Glass bottle	



## Benzalkonium chloride

Benzalconio cloruro • Benzalkonium chlorure • Benzalconio cloruro

Synonym:  
Alkylbenzyltrimethylammonium chloride

$[C_6H_5CH_2N(CH_3)_3]^+Cl^-$   
Molecular Weight: 365  
CAS: 63449-41-2  
EEC-N: 264-151-6

**Classification transport**  
ONU: 3259  
Transport Hazard class: 8  
Packing group II



**Danger**  
H302-H312-H314-H400  
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Benzalkonium chloride > ERBApharm - According to pharmacopoeia : NF

ERBApharm

Description ..... Polvere o polvere gelatinosa bianco-giallognola	Water not sol. matter ..... Conform NF	Rapporto dei comp. alchilici (HPLC) Conform NF	Residue on calcination ..... ≤ 2.0 %
Identification ..... Positive	Ammine estranee ..... Conform NF	Water ..... ≤ 15.0 %	Assay ..... 97.0 ÷ 103.0 % s.s.

Code	Size	Packaging	Notes
322737	1 kg	Plastic bottle	
322738	5 kg	Plastic jar	

### Benzalkonium chloride > RE - Pure

RE

Description ..... Yellow liqui-solid	Aspetto soluzione 1% ..... Conform	Sulphated ash ..... ≤ 0.1 %
Identification ..... Positive	Water (K.F.) ..... ≤ 10 %	Assay (non-aqueous medium) ..... 98.5 ÷ 103.0 % (s.s.)

Code	Size	Packaging	Notes
322721	250 g	Plastic bottle	



## Benzene

Benzene • Benzène • Benceno

$C_6H_6$   
Molecular Weight: 78,11  
CAS: 71-43-2  
EEC-N: 200-753-7

**Classification transport**  
ONU: 1114  
Transport Hazard class: 3  
Packing group II





**Danger**  
H225-H315-H319-H340-H350-H372-H304-HA26  
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

### Benzene > RPE - For analysis - ACS

RPE

Description ..... Clear liquid	Ready carbonizable substances ..... Conform	Residue on evaporation ..... ≤10 ppm	Total sulphur ..... ≤5 ppm
Colour (APHA) ..... ≤10	Water (K.F.) ..... ≤500 ppm	Tiofene ..... Conform	Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
426113	2.5 l	Glass bottle	

	<b>Benzene-d6</b> Benzene-d6 • Benzène-d6 • Benceno-d6		Synonym: Hexadeuterobenzene	
	$C_6D_6$ Molecular Weight: 84,07 CAS: 1076-43-3 EEC-N: 214-061-8	<b>Classification transport</b> ONU: 1114 Transport Hazard class: 3 Packing group II	  	<b>Danger</b> H225-H301-H311-H330-H350-HA26 P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

**Benzene-d6 > RS - For NMR - min 99.5%** **RS**

Code	Size	Packaging	Notes
P5089	10 x 0.75 ml	Glass ampoule	
P5085	25 ml	Glass bottle	
P5086	100 ml	Glass bottle	

**Benzene-d6 > RS - For NMR - min 99.96%** **RS**

Code	Size	Packaging	Notes
P5100	10 x 0.6 ml	Glass ampoule	

**Benzenemethanol ▶ Benzyl alcohol**

	<b>Benzenesulfonyl chloride</b> Benzenesolfonile cloruro • Benzène sulfonyle chlorure • Bencenosulfonilo cloruro		Synonym: Diphenylmethanol	
	$C_6H_5SO_2Cl$ Molecular Weight: 176,62 CAS: 98-09-9 EEC-N: 202-636-6	<b>Classification transport</b> ONU: 2225 Transport Hazard class: 8 Packing group III	  	<b>Danger</b> H302-H314 P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Benzenesulfonyl chloride > RPE - For analysis** **RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... ~ 1.377    Melting point ..... 15 ÷ 17 ° C  
 Identification ..... Positive    Refractive index at 20°C ..... ~ 1.552    Assay ..... ≥99 %

Code	Size	Packaging	Notes
426231	10 ml	Glass bottle	

**For derivatization**

**Benzethonium chloride ▶ Hyamine 1622**

	<b>Benzhydrol</b> Benzidrol • Benzhydrol • Bencidrol		Synonym: Diphenylmethanol	
	$C_6H_5CHOHC_6H_5$ Molecular Weight: 184,23 CAS: 91-01-0 EEC-N: 202-033-8			

**Benzhydrol > RPE - For analysis** **RPE**

Description ..... White crystals    Identification ..... Positive    Melting point ..... 68.0 ÷ 70.0 ° C    Residue on ignition ..... ≤0.1 %

Code	Size	Packaging	Notes
426403	50 g	Plastic bottle	



## Benzoic acid

Acido benzoico • Acide benzoïque • Acido benzóico

$C_6H_5COOH$   
Molecular Weight: 122,12  
CAS: 65-85-0  
EEC-N: 200-618-2



### Danger

H315-H318-H372  
P264-P260-P280g-P305+P351+P338-P314-  
P332+P313

### Benzoic acid > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000200	100 g	Plastic bottle	Ref Ph.Eur 2000200

### Benzoic acid > RS - Standard for volumetry

RS

Description ..... White crystalline powder Identification ..... Positive Assay (acidimetric) ..... ≥99.8 %

Code	Size	Packaging	Notes
402621	10 g	Glass bottle	

### Benzoic acid > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder Subst. reducing  $KMnO_4$  ..... Conform Sulphur compounds ..... ≤ 0.002 %  
Identification (I.R.) ..... Positive Heavy metals (Pb) ..... ≤ 5 ppm Residue on calcination ..... ≤ 0.005 %  
Insol. in alcol metilico ..... ≤ 0.005 % Chlorinated compounds ..... ≤ 0.005 % Assay (acidimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
402636	100 g	Plastic bottle	
402635	250 g	Plastic bottle	
402637	1 kg	Plastic bottle	

### Benzoic acid > ERBapharm - According to pharmacopeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

ERBapharm

Description ..... White crystalline powder Oxidizing substances ..... Conform Ph.Eur. Halogenated and halides ..... ≤300 ppm Residual solvents (Current ICH) ..... Conform  
Identification ..... Positive Freezing point .....  $121 \div 123$  °C Heavy metals (Pb) ..... ≤10 ppm  
Appearance of solution ..... Conform Ph.Eur. Water (K.F) ..... ≤0.7 % Assay (acidimetric) .....  $99.5 \div 100.5$  %s.s.  
Carbonizable substances ... Conform Ph.Eur. Sulphated ash ..... ≤0.05 % Origin (BSE/TSE) ..... Synthesis

Code	Size	Packaging	Notes
302087	1 kg	Plastic bottle	
302089	5 kg	Plastic jar	
302082	25 kg	Plastic bucket	

## Benzoic acid benzyl ester ▶ Benzyl benzoate



## p-Benzoquinone

p-Benzochinone • p-Benzoquinone • p-benzoquinona

Synonym:  
Quinone

$C_6H_4O_2$   
Molecular Weight: 108,09  
CAS: 106-51-4  
EEC-N: 203-405-2

### Classification transport

ONU: 2587  
Transport Hazard class: 6.1  
Packing group II



### Danger

H301-H331-H315-H319-H335-H400  
P264-P273-P271-P304+P340-P305+P351+P338-  
P301+P310a

### p-Benzoquinone > RPE - For analysis

RPE

Description ..... Yellow crystals Total chlorine ..... ≤40 ppm Residue on ignition ..... ≤0.1 % Assay (oxidimetric) ..... ≥99 %  
Identification ..... Positive Alcohol-insolub. matter ..... ≤200 ppm Total sulphur ..... ≤20 ppm  
Melting point .....  $113.5 \div 118.5$  °C Heavy metals (Pb) ..... ≤10 ppm Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
436853	50 g	Glass bottle	

**For spectrophotometric microdetermination of amines**



## Benzyl alcohol

Alcole benzilico • Alcool benzylique • Alcohol benílico

Synonym:  
Benzenemethanol

$C_6H_5CH_2OH$   
Molecular Weight: 108,14  
CAS: 100-51-6  
EEC-N: 202-859-9



### Warning

H302-H332-H319  
P264-P271-P304+P340-P305+P351+P338-P330-P337+P313

### Benzyl alcohol > RPE - For analysis - Stabilized with 0,02% BHA

RPE

Description ..... Clear colourless liquid	Boiling point.....204.9 ÷ 205.9 °C	Benzaldehyde(GLC) ..... ≤0.1 %	Peroxides (H2O2) ..... ≤10 ppm
Identification (I.R.)..... Conform	Acidity (benzoic acid) ..... ≤200 ppm	Total chlorine ..... ≤50 ppm	Residue on ignition ..... ≤20 ppm
Water miscibility..... Conform	Water (K.F) ..... ≤0.1 %	Carbonyl Compounds (CO) ..... ≤100 ppm	Fe ..... ≤10 ppm
Refractive index at 20°C. 1.5376 ÷ 1.5416	Alcalinity (NaOH)..... ≤34 ppm	Heavy metals (Pb)..... ≤5 ppm	Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
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414052	1 l	Glass bottle	
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Store between 2-8 °C

### Benzyl alcohol > RPE - For analysis

RPE

Description ..... Clear liquid	Density at 20° C ..... ~ 1.04	Water (K.F) ..... ≤0.1 %	Assay (GLC) ..... ≥99.8 %
Colour (APHA) ..... ≤10	Refractive index at 20° C..... ~ 1.54	Total chlorine ..... ≤100 ppm	
Identification ..... Positive	Boiling point.....204.5 ÷ 205.5 °C	Benzaldehyde ..... ≤0.1 %	

Code	Size	Packaging	Notes
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414022	1 l	Glass bottle	
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414024	2.5 l	Glass bottle	
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### Benzyl alcohol > ERBapharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBapharm

Description ..... Clear colourless liquid	Density at 20° C ..... 1.043 ÷ 1.049	Benzaldehyde (GLC) ..... ≤0.15 %	Peaks sum rel.ret. less than C6H5CH2OH ≤ 0.04 %
Identification ..... Positive	Refractive index at 20°C..... 1.538 ÷ 1.541	Peroxide value..... ≤5	Peaks sum rel.ret. great than C6H5CH2OH ≤ 0.3 %
Appearance of solution ..... Conform Ph.Eur.	Residue on evaporation ..... ≤500 ppm	Solubility..... Conform Ph. Eur.	Assay (acidimetric) ..... 98.0 ÷ 100.5 %
Acidity ..... Conform Ph.Eur.	Analogous subst. GLC..... Conform Ph.Eur.	Cyclohexylmethanol (GLC) ..... ≤0.10 %	

Code	Size	Packaging	Notes
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308131	1 l	Glass bottle	
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308132	2.5 l	Glass bottle	
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308138	23 kg	Drum	
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## Benzylamine

Benzilamina • Benzylamine • Bencilamina

Synonym:  
α-Aminotoluene

$C_6H_5CH_2NH_2$   
Molecular Weight: 107,15  
CAS: 100-46-9  
EEC-N: 202-854-1

### Classification transport

ONU: 2735  
Transport Hazard class: 8  
Packing group III



### Danger

H226-H302-H312-H314  
P210-P241-P264-P301+P330+P331 -  
P303+P361+P353-P304+P340-P305+P351+P338 -  
P403+P235



### Benzylamine > RPE - For analysis

RPE

Description ..... Yellow clear liquid	Density at 20° C ..... 0.979 ÷ 0.983	Boiling point..... 184.5 ÷ 185.5 °C
Identification ..... Positive	Refractive index at 20°C..... 1.5425 ÷ 1.5445	Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
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426453	100 ml	Glass bottle	
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**Benzyl benzoate**

Benzile benzoato • Benzyle benzoato • Bencilo benzoato

Synonym:

*Benzoic acid benzyl ester*

$C_6H_5COOCH_2C_6H_5$   
 Molecular Weight: 212,25  
 CAS: 120-51-4  
 EEC-N: 204-402-9

**Classification transport**

ONU: 3082  
 Transport Hazard class: 9  
 Packing group III

**Warning**

H302-H411  
 P264-P273-P270-P330-P301+P312a-P391

**Benzyl benzoate > RPE - For analysis****RPE**

Description ..... Clear liquid    Refractive index at 20°C ..... 1.5651 ÷ 1.5711    Acidity (benzoic acid) ..... ≤ 0.12 %  
 Identification ..... Positive    Melting point ..... 18.6 ÷ 20.2 °C    Carbonyl Compounds (CO) ..... ≤ 0.04 %  
 Density at 20°C ..... 1.118 ÷ 1.122    Water (K.F) ..... ≤ 0.05 %    Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
426761	250 ml	Glass bottle	
426763	1 l	Glass bottle	

**Benzyl benzoate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP****ERBApharm**

Description ..... Clear colourless liquid    Organic volatile impurities Conform USP-NF    Refractive index at 20°C ..... 1.568 ÷ 1.570    Sulphated ash ..... ≤ 0.1 %  
 Identification ..... Positive    Density at 20 °C ..... 1.118 ÷ 1.122    Freezing point ..... ≥ 17.0 °C    Assay (alkalimetric) ..... 99.0 ÷ 100.5 %  
 Acidity ..... Conform Ph.Eur.    Density at 25 °C ..... 1.116 ÷ 1.120    Aldehyde ..... ≤ 0.05 %

Code	Size	Packaging	Notes
323101	1 l	Glass bottle	
323102	2.5 l	Glass bottle	

**S-Benzylisothiurea hydrochloride**

Benziliositiourea cloridrato • Benzylisothiourée chlorhydrate • Benciliositiourea clorhidrato

Synonym:

*2-Benzyl-2-thiopseudourea hydrochloride*

$NH_2C(SCH_2C_6H_5)_2 \cdot NH_2 \cdot HCl$   
 Molecular Weight: 202,71  
 CAS: 538-28-3  
 EEC-N: 208-688-6

**Classification transport**

ONU: 2811  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**

H301  
 P264-P270-P301+P310a-P330-P321-P405

**S-Benzylisothiurea hydrochloride > RPE - For analysis****RPE**

Description ..... White shining crystals    Suitab.for sulphon.prec ..... Conform    Residue on ignition ..... ≤ 500 ppm  
 Identification ..... Positive    Loss on drying ..... ≤ 1 %    Assay (argentimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
426962	25 g	Glass bottle	

**Beryllium standard solution**

Berillio standard soluzione • Beryllium standard solution • Berilio, solución patrón

**Classification transport**

ONU: 1760  
 Transport Hazard class: 8  
 Packing group II

**Beryllium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505332	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505335	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505333	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Beryllium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503461	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503463	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Beryllium standard solution > RS - Standard solution for AAS

**RS**

Code	Size	Packaging	Notes
506941	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507497	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Bis(ethylenediamine)copper(II) hydroxide solution 1 mol/l

Cuprietilendiammina idrossido 1 mol/l • Cupriéthylènediamine hydroxyde 1 mol/l • Cobre (II) dietilendiaminico hidroxido 1 mol/l

## Bis(ethylenediamine)copper(II) hydroxide solution 1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613008700	1 l	Glass bottle	Ref Ph.Eur 3008700



## n,o-Bis(trimethylsilyl)acetamide

n,o-Bis (trimetilsilil)acetammide • n,o-Bis(triméthylsilyl)acétamide • n,o-Bis (trimetilsilil) acetamida

Synonym:  
BSA

$\text{CH}_3\text{C}[\text{N}(\text{Si}(\text{CH}_3)_3)]\text{OSi}(\text{CH}_3)_3$   
Molecular Weight: 203,43  
CAS: 10416-59-8  
EEC-N: 233-892-7

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H302  
P210-P241-P264-P243-P303+P361+P353-P403+P235

## n,o-Bis(trimethylsilyl)acetamide > RPE - For analysis

**RPE**

Description ..... Clear yellow liquid Identification ..... Positive Density at 20° C ..... ~ 0.835

Code	Size	Packaging	Notes
489934	25 ml	Glass bottle	

**For derivatization**



## n,o-Bis(trimethylsilyl)-trifluoroacetamide

n,o-Bis (trimetilsilil)trifluoroacetammide • n,o-Bis(triméthylsilyl)trifluoroacétamide • n,o-Bis (trimetilsilil) trifluoroacetamida

Synonym:  
BSTFA

$\text{C}_8\text{H}_{18}\text{F}_3\text{NOSi}_2$   
Molecular Weight: 257,39  
CAS: 25561-30-2  
EEC-N: 247-103-9

**Classification transport**  
ONU: 2920  
Transport Hazard class: 8  
Packing group II



**Danger**  
H226-H314  
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

## n,o-Bis(trimethylsilyl)-trifluoroacetamide > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid Identification ..... Positive Density at 20° C ..... ≤ 0.985 Assay (GLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
489561	25 ml	Glass bottle	

**For derivatization**



## Bismarck brown R

Bruno Bismarck R • Brun Bismarck R • Pardo de Bismarck R

$\text{C}_{21}\text{H}_{24}\text{N}_8 \cdot 2\text{HCl}$   
Molecular Weight: 461,39  
CAS: 8005-78-5  
EEC-N: 232-341-8



**Warning**  
H302-H312-H332  
P264-P271-P280-P261-P304+P340-P330

## Bismarck brown R > RS - For microscopy - C.I. 21010

**RS**

Description ..... Brown powder Identification ..... Positive E 1% / 1 cm a 460 nm ..... ≥250 Loss on drying (110°C) ..... ≤10 %

Code	Size	Packaging	Notes
431252	25 g	Glass bottle	

**Dye for bacteriology, histology**



**Bismuth standard solution**

Bismuto standard soluzione • Bismuth standard solution • Bismuto, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group II**Danger**H314-H319-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Bismuth standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615005300	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5005300

**Bismuth standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505337	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505338	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505339	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Bismuth standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503471	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503475	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503473	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503477	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Bismuth standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507528	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497455	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507482	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497451	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Bismuth standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
428071		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Bismuth(III) carbonate basic

Bismuto carbonato basico • Bismuth (III) carbonate basique • Bismuth (III) carbonate basique

Synonym:  
Bismuth subcarbonate

(BiO)<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 509,97  
CAS: 5892-10-4  
EEC-N: 227-567-9

### Bismuth(III) carbonate basic > RPE - For analysis

RPE

Description ..... Yellowish powder    Ag ..... ≤ 25 ppm    Pb ..... ≤ 20 ppm    Chloride ..... ≤ 0.05 %  
Identification ..... Positive    As ..... ≤ 5 ppm    Assay (complexometric) ..... 97.6 ÷ 100.7 %    Nitrate ..... ≤ 0.4 %  
Loss on drying ..... ≤ 1.0 %    Cu ..... ≤ 50 ppm    Alkaly-alkaline earth ..... ≤ 1.0 %

Code	Size	Packaging	Notes
428103	50 g	Glass bottle	
428105	250 g	Plastic bottle	



## Bismuth(III) nitrate basic

Bismuto nitrato basico • Bismuth (III) nitrate basique • Bismuth (III) nitrate basique

Synonym:  
Bismuth subnitrate

4BiNO<sub>3</sub>(OH)<sub>2</sub> BiO(OH)  
Molecular Weight: 1461,99  
CAS: 1304-85-4  
EEC-N: 215-136-8

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H315-H319-H335  
P221-P264-P210a-P271-P304+P340-  
P305+P351+P338

### Bismuth(III) nitrate basic > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... White powder    Identification ..... Positive    Assay (complexometric) ..... 79.0 ÷ 82.0 %

Code	Size	Packaging	Notes
428294	100 g	Glass bottle	

### Bismuth(III) nitrate basic > RPE - For analysis

RPE

Description ..... White powder    Chloride ..... ≤ 20 ppm    Ag ..... ≤ 20 ppm    Ni ..... ≤ 10 ppm  
Identification ..... Positive    HNO<sub>3</sub>-insoluble matter ..... ≤ 50 ppm    As ..... ≤ 2 ppm    Pb ..... ≤ 30 ppm  
Ammonium ..... ≤ 50 ppm    Substances not ppt. H<sub>2</sub>S ..... ≤ 0.2 %    Cu ..... ≤ 10 ppm    Zn ..... ≤ 20 ppm  
Carbonate ..... ≤ 20 ppm    Sulphate ..... ≤ 50 ppm    Fe ..... ≤ 10 ppm    Assay (complexometric) ..... 79.0 ÷ 82.0 %

Code	Size	Packaging	Notes
428284	100 g	Glass bottle	
428286	500 g	Glass bottle	

For Dragendorff reagent



## Bismuth(III) nitrate pentahydrate

Bismuto (III) nitrato pentaidrato • Bismuth (III) nitrate pentahydraté • Bismuth (III) nitrate pentahidratado

Bi(NO<sub>3</sub>)<sub>3</sub>·5H<sub>2</sub>O  
Molecular Weight: 485,07  
CAS: 10035-06-0  
EEC-N: 233-791-8

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H315-H319-H335  
P210-P221-P264-P271-P304+P340-  
P305+P351+P338

### Bismuth(III) nitrate pentahydrate > RPE - For analysis

RPE

Description ..... White crystals    HNO<sub>3</sub>-insoluble matter ..... ≤ 30 ppm    As ..... ≤ 1 ppm    Pb ..... ≤ 20 ppm  
Identification ..... Positive    Substances not ppt. H<sub>2</sub>S ..... ≤ 50 ppm    Cu ..... ≤ 10 ppm    Zn ..... ≤ 10 ppm  
Ammonium ..... ≤ 50 ppm    Sulphate ..... ≤ 40 ppm    Fe ..... ≤ 10 ppm    Assay (complexometric) ..... ≥ 98.5 %  
Chloride ..... ≤ 5 ppm    Ag ..... ≤ 20 ppm    Ni ..... ≤ 10 ppm

Code	Size	Packaging	Notes
428234	100 g	Glass bottle	
428236	500 g	Glass bottle	

### Bismuth(III) nitrate pentahydrate > RE - Pure

RE

Description ..... White crystals    Chloride ..... ≤ 350 ppm    Sulphate ..... ≤ 600 ppm    Assay (complexometric) ..... ≥ 98 %  
Identification ..... Positive    Alkaly-alkaline earth ..... ≤ 0.5 %    As ..... ≤ 10 ppm

Code	Size	Packaging	Notes
324185	250 g	Glass bottle	



## Biuret 97%

Biureto 97% • Biuret 97% • Biuret 97%

Synonym:  
Allophanic acid amide  
Carbamoyl urea

$\text{NH}_2\text{CONHCONH}_2$   
Molecular Weight: 103,08  
CAS: 108-19-0  
EEC-N: 203-559-0



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Biuret 97% > RS - For microscopy

RS

Description ..... White crystalline powder Identification ..... Positive Water (K.F.) ..... ≤ 2 %

Code	Size	Packaging	Notes
428432	25 g	Glass bottle	



## Biuret reagent

Biureto reattivo • Réactif au biuret • Biuret reactivo

Synonym:  
Allophanic acid amide  
Carbamoyl urea

$\text{NH}_2\text{CONHCONH}_2$   
Molecular Weight: 103,08  
CAS: 108-19-0  
EEC-N: 203-559-0



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Biuret reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611011601	1 l	Plastic bottle	Biuret reagent Ref Ph.Eur 1011601



## Boric acid

Acido borico • Acide borique • Acido bórico

$\text{H}_3\text{BO}_3$   
Molecular Weight: 61,83  
CAS: 10043-35-3  
EEC-N: 233-139-2



### Danger

H360FD-HA26  
P280-P201-P202-P308+P313

### Boric acid > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USA

RPE

Description ..... White crystalline powder Sulphate ..... ≤100 ppm Insoluble in methanol ..... ≤50 ppm Organic substances ..... Conform  
Identification ..... Positive Heavy metals (Pb) ..... ≤10 ppm Nonvolatile with methanol ..... ≤500 ppm pH solution 3.3% ..... 3.8 ÷ 4.8  
Chloride ..... ≤10 ppm Ca ..... ≤50 ppm Appearance of solution ..... Conform Loss on drying ..... ≤0.5 %  
Phosphate ..... ≤10 ppm Fe ..... ≤10 ppm Alcohol solubility ..... Conform Assay (acidimetric) ..... 99.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
402763	100 g	Plastic bottle	
402766	500 g	Plastic bottle	
402767	1 kg	Plastic bottle	
402765	10 kg	Plastic jar	
402762	25 kg	Plastic bucket	
402764	50 kg	Fibre drum	

### Boric acid > ERBApharm - According to pharmacopeia : NF

ERBApharm

Description ..... White crystalline powder pH (sol. 3.3%) ..... 3.8 ÷ 4.8 Fe ..... ≤ 1 ppm Residual solvents (CPMP/ICH/283/95) ..... Conform  
Identification ..... Positive Organic substances ..... Conform Ph.Eur. Heavy metals (Pb) ..... ≤ 15 ppm Conform  
Appearance of solution ..... Conform Ph.Eur. Loss on drying ..... ≤ 0.5 % Assay (acidimetric) ..... 99.5 ÷ 100.5 % s.s.  
Alcohol solubility ..... Conform Ph.Eur. Sulphate ..... ≤ 450 ppm Origin (BSE/TSE) ..... Synthesis

Code	Size	Packaging	Notes
302185	25 kg	Plastic bucket	

## Boric acid > ERBApharm - According to pharmacopoeia : Ph.Eur.-FU-Ph.Franc.-DAB-USP

ERBApharm

Description .....	White crystalline powder	Organic substances.....	Conform Ph.Eur.	Fe .....	≤10 ppm	Residual solvents (Current ICH).....	Conform
Identification .....	Positive	pH (sol. 3.3%) .....	3.8 ÷ 4.8	Heavy metals (Pb).....	≤15 ppm		
Appearance of solution.....	Conform Ph.Eur.	Loss (silica gel) .....	≤0.5 %	Assay (acidimetric).....	99.5 ÷ 100.5 % s.s.		
Alcohol solubility .....	Conform Ph.Eur.	Sulphate .....	≤450 ppm	Origin (BSE/TSE).....	Synthesis		

Code	Size	Packaging	Notes
302177	1 kg	Plastic bottle	
302179	5 kg	Plastic jar	
302178	25 kg	Plastic bucket	



## Boric Acid 20g/l

Acido borico 20g/l • Acide borique 20g/l • Acido bórico 20g/l

H <sub>3</sub> BO <sub>3</sub>	HEU210
Molecular Weight: 61,83	
CAS: 10043-35-3	

## Boric Acid 20g/l > RS - For analysis

RS

Concentration .....19 - 21 g/l

Code	Size	Packaging	Notes
PS0703/22	5 l	Plastic tank	



## Boric acid 20 g/l with indicator

Acido borico 20 g/l con indicatore • Acide borique 20 g/l avec indicateur • Acido bórico 20 g/l con indicador

H <sub>3</sub> BO <sub>3</sub>	HEU210
Molecular Weight: 61,83	
CAS: 10043-35-3	

## Boric acid 20 g/l with indicator > RS - For nitrogen detection according to Kjeldahl

RS

Refractive index at 20°C..... 1.331 - 1.335 Density d20/4..... 1.003 - 1.007

Code	Size	Packaging	Notes
PS0562/22	5 l	Plastic tank	

**Composition : Boric acid 20g, Red methyl solution 0.5 g/l : 10ml, Methylene blue solution 1.5 g/l : 2ml, water : QSP 1l according to ISO 5663-1984**



## Boric acid 4%

Acido borico 4% • Acide borique 4% • Acido bórico 4%

H <sub>3</sub> BO <sub>3</sub>	HEU210
Molecular Weight: 61,83	
CAS: 10043-35-3	

## Boric acid 4% > RS - For agroalimentary analysis

RS

Description .....

Code	Size	Packaging	Notes
502002	5 l	Plastic tank	

**According to NF V04-387: H3BO3: 40 g/L water QSP 1 L**



## Boric acid 4 % with indicator

Acido borico 4% con indicatore • Acide borique 4% avec indicateur • Acido bórico 4% con indicador

H <sub>3</sub> BO <sub>3</sub>	HEU210
Molecular Weight: 61,83	
CAS: 10043-35-3	

## Boric acid 4 % with indicator > RS - For agroalimentary analysis

RS

Description .....

Code	Size	Packaging	Notes
502601	5 l	Plastic tank	

**According to NF V04-211: H3BO3: 40 g/L water QSP 1L. Mixed indicator (Methyl red+Bromocresol green): 10 ml**

**Boric acid 3%**

Acido borico 3% • Acide borique 3% • Acido bórico 3%



Molecular Weight: 61,83

CAS: 10043-35-3

HEU210

**Boric acid 3% > RPE - For analysis****RPE**

Boric acid content ..... 2.9 - 3.1 %

Code	Size	Packaging	Notes
PS0563/21	2.5 l	Glass bottle	

**Boric acid 1% with indicator**

Acido borico 1% con indicatore • Acide borique 1% avec indicateur • Acido bórico 1% con indicador



Molecular Weight: 61,83

CAS: 10043-35-3

HEU210

**Boric acid 1% with indicator > RS - For agroalimentary analysis****RS**

Description ..... Clear grey/green liquid Assay ..... 0.993 ÷ 1.007 %

Code	Size	Packaging	Notes
502611	5 l	Plastic tank	
502612	10 l	Plastic tank	

**According to NF V04-211: H3BO3: 10 g/L water QSP 1L. Mixed indicator (Methyl red+Bromocresol green): 10 ml****Boric buffer solution**

Tampone borico soluzione • Solution tampon borique • Tampón bórico solución

**Warning**

H315-H319

P264-P280-P305+P351+P338-P332+P313-

P337+P313-P302+P352a

**Boric buffer solution > RS - For analysis****RS**

Temperature of measurement ..... 19 - 21 °C pH.....9.9 - 10.9 unite pH

Code	Size	Packaging	Notes
PS0226/29	5 l	Plastic tank	
PS0226/41	10 l	Plastic tank	

**Composition : boric acid 33g/l, potassium chloride 39.7g/l, sodium hydroxide 18.75g/l****2-Bornanone ▶ Camphor natural****Boron standard solution**

Boro standard soluzione • Bore standard solution • Boro, solución patrón

HEU210

**Boron standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505322	100 ml	Plastic bottle	conc. 10 ppm Matrix : Water
505325	100 ml	Plastic bottle	conc. 100 ppm Matrix : Water
505323	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Boron standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503441	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503445	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
503443	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503447	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Boron standard solution &gt; RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497465	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Water
E497461	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Boron standard solution &gt; RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
429641		Plastic ampoule	conc. 1.000 ppm Matrix : Water - Volume : 50 ml

Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package

## Brilliant Blue R ▶ Coomassie brilliant blue R 250



## Brillant cresyl blue

Blu cresile brillante • Bleu de crésyl brillant • Azul de cresol brillante

$C_{17}H_{21}N_4O \cdot 0.5 ZnCl_4$   
Molecular Weight: 400.97  
CAS: 81029-05-2  
EEC-N: 279-675-0

## Brillant cresyl blue &gt; RS - For microscopy

RS

Description ..... Polvere verde-bluastro scura Identification ..... Positive E (1%/1cm) a 622 nm (in ETOH 50%) ..... 1500 ÷ 1700

Code	Size	Packaging	Notes
428811	10 g	Glass bottle	
428812	25 g	Glass bottle	

Dye for cytology and hematology



## Brilliant green

Verde brillante • Vert brillant • Verde brillante

Synonym:  
Basic Green 1  
Diamond green

$C_{27}H_{34}N_2O_4S$   
Molecular Weight: 482,64  
CAS: 633-03-4  
EEC-N: 211-190-1



## Warning

H302  
P264-P270-P330-P301+P312a-P501a

## Brilliant green &gt; RPE - For analysis - C.I. 42040

RPE

Description ..... Green crystalline powder Identification ..... Positive Loss on drying ..... ≤ 10 % Colour change..... yellow green

Code	Size	Packaging	Notes
491152	25 g	Glass bottle	

Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 0.1 ÷ 2.6)

**Brix Standards**

Brix Standards • Etalons en degré Brix • Brix patrones

**Brix Standards > RS - For calibration****RS**

Code	Size	Packaging	Notes
540201	15 ml	Bottle	Sucrose Stabilised 0%, Nominal Refractive Index @ 20°C : 1.332986
540202	15 ml	Bottle	Sucrose Stabilised 5%, Nominal Refractive Index @ 20°C : 1.340264
540203	15 ml	Bottle	Sucrose Stabilised 7%, Nominal Refractive Index @ 20°C : 1.343253
540204	15 ml	Bottle	Sucrose Stabilised 10%, Nominal Refractive Index @ 20°C : 1.347824
540205	15 ml	Bottle	Sucrose Stabilised 11.5%, Nominal Refractive Index @ 20°C : 1.350149
540206	15 ml	Bottle	Sucrose Stabilised 12%, Nominal Refractive Index @ 20°C : 1.350930
540207	15 ml	Bottle	Sucrose Stabilised 15%, Nominal Refractive Index @ 20°C : 1.355679
540208	15 ml	Bottle	Sucrose Stabilised 20%, Nominal Refractive Index @ 20°C : 1.363842
540209	15 ml	Bottle	Sucrose Stabilised 25%, Nominal Refractive Index @ 20°C : 1.372328
540210	15 ml	Bottle	Sucrose Stabilised 30%, Nominal Refractive Index @ 20°C : 1.381149
540220	15 ml	Bottle	Sucrose Stabilised 35%, Nominal Refractive Index @ 20°C : 1.390322
540221	15 ml	Bottle	Sucrose Stabilised 40%, Nominal Refractive Index @ 20°C : 1.39986
540222	15 ml	Bottle	Sucrose Stabilised 45%, Nominal Refractive Index @ 20°C : 1.409777
540223	15 ml	Bottle	Sucrose Stabilised 50%, Nominal Refractive Index @ 20°C : 1.420087
540224	15 ml	Bottle	Sucrose Stabilised 60%, Nominal Refractive Index @ 20°C : 1.441928
540225	15 ml	Bottle	Sucrose Stabilised 67.5%, Nominal Refractive Index @ 20°C : 1.459290

**Store between 2 - 8 °C****Bromate standard solution**

Bromati standard soluzione • Bromate standard solution • Bromato, solución patrón

**Danger**

H350-HA26

P280-P201-P202-P308+P313-P405-P501a

**Bromate standard solution > RS - Standard solution for ion chromatography****RS**

Code	Size	Packaging	Notes
503171	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503173	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Bromide - bromate 0.0167 mol/l

Bromuri - bromati 0.0167 mol/l • Bromure - bromate 0.0167 mol/l • Bromuro - bromato 0.0167 mol/l



### Danger

H350-HA26

P280-P201-P202-P308+P313-P405-P501a

**Bromide - bromate 0.0167 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613001000	1 l	Plastic bottle	Ref Ph.Eur 3001000



## Bromide standard solution

Bromuri standard soluzione • Bromure standard solution • Bromuro, solución patrón

**Bromide standard solution > RS - Standard solution for ion chromatography**

RS

Code	Size	Packaging	Notes
503211	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503213	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Bromine solution

Bromo soluzione • Brome solution • Bromo, solución patrón

Br<sub>2</sub>

Molecular Weight: 159.82

CAS: 7726-95-6

**Bromine solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611012401	100 ml	Glass bottle	Ref Ph.Eur 1012401

**Bromine solution > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
617000141	100 ml	Glass bottle	Brome TS



## Bromine water

Acqua di bromo • Eau de brome • Agua de bromo

Br<sub>2</sub>

Molecular Weight: 159,82

CAS: 7726-95-6

### Classification transport

ONU: 3289

Transport Hazard class: 6.1

Packing group I



### Danger

H315-H318

P264-P280-P305+P351+P338-P332+P313-

P302+P352a-P321

**Bromine water > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611012409	50 ml	Glass bottle	Ref Ph.Eur 1012402
611012402	100 ml	Glass bottle	Ref Ph.Eur 1012402

**Storage: protected from light**



**Bromocresol Green**

Verde bromocresolo • Vert de bromocrésol • Verde de bromocresol

$C_{21}H_{14}Br_4O_5S$   
 Molecular Weight: 698,05  
 CAS: 76-60-8  
 EEC-N: 200-972-8

**Bromocresol Green > RPE - For analysis - ACS****RPE**

Description ..... Beige powder      Appearance of solution ..... Conform      pH range ..... 3.8 ÷ 5.4  
 Identification ..... Positive      Colour change ..... yellow-blue

Code	Size	Packaging	Notes
491207	1 g	Glass bottle	
491208	25 g	Glass bottle	
491201	20 kg	Fibre drum	

**Clark indicator series. Complexometric indicator. Dye for microscopy (botanical-histology)****Bromocresol green 0.04% hydroalcoholic solution**

Verde bromocresolo soluzione 0,04% idroalcolica • Vert de bromocrésol solution hydroalcoolique à 0,04% • Verde de bromocresol 0.04% solución hidroalcohólica

$C_{21}H_{14}Br_4O_5S$   
 Molecular Weight: 698,05  
 CAS: 76-60-8

**Warning**

H319  
 P264-P280-P305+P351+P338-P337+P313

**Bromocresol Green 0.04% hydroalcoholic solution > RPE - For analysis****RPE**

Description ..... Clear green liquid      Identification ..... Positive      Sensitivity(pH 4.0-5.4) ..... Conform      Colour change ..... yellow blue

Code	Size	Packaging	Notes
E491255	250 ml	Glass bottle	

**Clark indicator series. Acid-base indicator (pH 3.8 ÷ 5.4)****Bromocresol green solution**

Verde bromocresolo soluzione • Vert de bromocrésol solution • Verde de bromocresol solución

$C_{21}H_{14}Br_4O_5S$   
 Molecular Weight: 698,05  
 CAS: 76-60-8

**Bromocresol green solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611012601	100 ml	Plastic bottle	Ref Ph.Eur 1012601 / Colour change : pH 3.6 (yellow) to pH 5.2 (blue)

**Bromocresol green solution > RS - For analysis according to USP****RS**

Code	Size	Packaging	Notes
617000101	100 ml	Plastic bottle	Bromocresol green TS

**Bromocresol green - Methyl red solution**

Verde bromocresolo - Rosso metile soluzione • Vert de bromocrésol - Rouge de méthyle solution • Verde de bromocresol - Rojo de metilo solución

**Classification transport**

ONU: 1170  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H319  
 P210-P241-P264-P303+P361+P353-  
 P305+P351+P338-P403+P235


**Bromocresol green - Methyl red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611012602	100 ml	Plastic bottle	Ref Ph.Eur 1012602

**Bromocresol purple**  
 Porpora bromocresolo • Pourpre de bromocrésol • Púrpura de bromocresol

Synonym:  
 5,5'-Dibromo-o-cresolsulfonphthalein

C21H16Br2O5S  
 Molecular Weight: 540,24  
 CAS: 115-40-2  
 EEC-N: 204-087-8

 **Warning**  
 H315-H319-H335  
 P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

**Bromocresol purple > RPE - For analysis** **RPE**

Description ..... Pink powder    Identification ..... Positive    Colour change ..... Purple - yellow    pH range ..... 5.2 ÷ 6.8

Code	Size	Packaging	Notes
470038	5 g	Glass bottle	
470039	25 g	Glass bottle	

**Clark indicator series. Acid-base indicator (pH 5.2 ÷ 6.8) Dye for microscopy (histology)**

**Bromocresol purple solution 0.4% in ethanol**  
 Porpora bromocresolo soluzione 0.4% in etanolo • Pourpre de bromocrésol solution 0.4% dans l'éthanol • Púrpura de bromocresol solución 0.4% en alcohol etílico

Synonym:  
 5,5'-Dibromo-o-cresolsulfonphthalein

C21H16Br2O5S  
 Molecular Weight: 540,24  
 CAS: 115-40-2

 **Warning**  
 H319  
 P264-P280-P305+P351+P338-P337+P313

**Bromocresol purple solution 0.4% in ethanol > RPE - For analysis** **RPE**

Description ..... Red clear liquid    Identification ..... Positive    pH range ..... 5.2 - 6.8

Code	Size	Packaging	Notes
E470045	250 ml	Glass bottle	

**Clark indicator series. Acid-base indicator (pH 5.2 ÷ 6.8) Dye for microscopy (histology)**

**Bromocresol purple solution**  
 Porpora bromocresolo soluzione • Pourpre de bromocrésol solution • Púrpura de bromocresol solución

**Classification transport**  
 ONU: 1993  
 Transport Hazard class: 3  
 Packing group III

  **Warning**  
 H226-H319  
 P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235


**Bromocresol purple solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1** **RS**

Code	Size	Packaging	Notes
611012701	100 ml	Plastic bottle	Ref Ph.Eur 1012701

**Colour change : pH 5.2 (yellow) to pH 6.8 (bluish-violet)**

**alpha-Bromonaphthalene**  
 alfa-Bromonaftalene • alpha-Bromonaphtalène • alpha-Bromonaftaleno

C10H7Br  
 Molecular Weight: 207,07  
 CAS: 90-11-9  
 EEC-N: 201-965-2

 **Warning**  
 H302-H319  
 P264-P280-P305+P351+P338-P330-P337+P313-P301+P312a

**alpha-Bromonaphthalene > RPE - For analysis** **RPE**

Description ..... Yellow clear liquid    Density at 20° C ..... 1.479 ÷ 1.485    Melting point ..... 2.0 ÷ 4.0 ° C  
 Identification ..... Positive    Refractive index at 20°C ..... 1.6562 ÷ 1.6602    Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
430652	500 ml	Glass bottle	

**Bromophenol blue**

Blu bromofenolo • Bleu de bromophénoł • Azul de bromofenol

Synonym:

3',3'',5',5''-Tetrabromophenolsulfonephthalein

 $C_{19}H_{10}Br_4O_5S$ 

Molecular Weight: 669,96

CAS: 115-39-9

EEC-N: 204-086-2

**Bromophenol blue > RPE - For analysis - ACS****RPE**Description ..... Pink powder      Appearance of solution ..... Conform      pH range ..... 3.0 - 4.6  
Identification ..... Positive      Colour change ..... yellow blue

Code	Size	Packaging	Notes
428658	5 g	Glass bottle	
428659	25 g	Glass bottle	
428653	50 g	Glass bottle	
428655	500 g	Plastic bottle	

**Clark indicator series. Dye for microscopy (histology)****Bromophenol blue solution 0.4% in ethanol**

Blu bromofenolo soluzione 0.4% in alcole etilico • Bleu de bromophénoł solution 0.4% dans l'éthanol • Azul de bromofenol solución 0.4% en alcohol etilico

 $C_{19}H_{10}Br_4O_5S$ 

Molecular Weight: 669,96

CAS: 115-39-9

**Warning**

H319

P264-P280-P305+P351+P338-P337+P313

**Bromophenol blue solution 0.4% in ethanol > RPE - For analysis****RPE**

Description ..... Red liquid      Identification ..... Positive      Colour change ..... yellow blue      pH range ..... 3.0 - 4.6

Code	Size	Packaging	Notes
E428665	250 ml	Glass bottle	

**Clark indicator series. Acid-base indicator (pH 3.0 to 4.6) indicator absorbance****Bromophenol blue solution 0.02%**

Blu bromofenolo soluzione 0.02% • Bleu de bromophénoł solution 0.02% • Azul de bromofenol solución 0.02%

 $C_{19}H_{10}Br_4O_5S$ 

Molecular Weight: 669,96

CAS: 115-39-9

**Bromophenol blue solution 0.02% > RPE - For analysis****RPE**

Description ..... Clear purple liquid      Identification ..... Positive

Code	Size	Packaging	Notes
428691	100 ml	Glass bottle	

**Dye for microscopy****Bromophenol blue solution**

Blu bromofenolo soluzione • Bleu de bromophénoł solution • Azul de bromofenol solución

 $C_{19}H_{10}Br_4O_5S$ 

Molecular Weight: 669,96

CAS: 115-39-9

**Classification transport**

ONU: 2733

Transport Hazard class: 3

Packing group II

**Danger**

H225-H319

P210-P241-P264-P303+P361+P353-

P305+P351+P338-P403+P235

**Bromophenol blue solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611012801	100 ml	Plastic bottle	Ref Ph.Eur 1012801/Colour change : pH 2.8 (yellow) à pH 4.4 (bleu-violet)
611012802	100 ml	Plastic bottle	Bromophenol blue solution R1 Ref Ph.Eur 1012802
611012803	100 ml	Plastic bottle	Bromophenol blue solution R2 Ref Ph.Eur 1012803



## Bromophenol blue indicator

Blu bromofenolo indicatore • Indicateur bleu de bromophénol • Indicador azul de bromofenol

### Bromophenol blue indicator > RS - For analysis

RS

Temperature of measurement ..... 15 - 25 °C    pH..... 2.1 - 2.3 unite pH

Code	Size	Packaging	Notes
PS0269/15	1 l	Plastic bottle	



## Bromophenol blue TAC indicator

Blu bromofenolo indicatore TAC • Indicateur TAC au bleu de bromophénol • TAC indicador azul de bromofenol

### Bromophenol blue TAC indicator > RS - For analysis

RS

Temperature of measurement ..... 15 - 25 °C    pH..... 2 - 2.4 unite pH    Colour ..... coca-cola Hazen

Code	Size	Packaging	Notes
PS0189/15	1 l	Plastic bottle	
PS0189/16	1 l	Glass bottle	



## Bromothymol blue

Blu bromotimolo • Bleu de bromothymol • Azul de bromotimol

Synonym:

3',3''-Dibromothymolsulfonphthalein

$C_{27}H_{28}Br_2O_5S$   
Molecular Weight: 624,39  
CAS: 76-59-5  
EEC-N: 200-971-2



### Warning

H302-H312-H332  
P264-P271-P280-P261-P304+P340-P330

### Bromothymol blue > RPE - For analysis - ACS

RPE

Description ..... Brown powder    Appearance of solution ..... Conform    pH range ..... 6.0 - 7.6  
Identification ..... Positive    Colour change..... yellow-blue

Code	Size	Packaging	Notes
428708	5 g	Glass bottle	
428702	25 g	Glass bottle	
428703	50 g	Glass bottle	

Clark indicator series



## Bromothymol blue 0.4% in ethanol

Blu bromotimolo soluzione 0.4% in alcole etilico • Bleu de bromothymol solution 0.4% dans l'éthanol • Azul de bromotimol solución 0.4% en alcohol etilico

$C_{27}H_{28}Br_2O_5S$   
Molecular Weight: 624,39  
CAS: 76-59-5



### Warning

H319  
P264-P280-P305+P351+P338-P337+P313

### Bromothymol blue 0.4% in ethanol > RPE - For analysis

RPE

Description ..... Dark green liquid    Identification ..... Positive    Colour change..... yellow blue    pH (Hydralcoholic sol.) ..... Conform 6.0 7.6

Code	Size	Packaging	Notes
E428715	250 ml	Glass bottle	

Clark indicator series



## Bromothymol blue 0.02%

Blu bromotimolo 0.02% • Bleu de bromothymol solution 0.02% • Azul de bromotimol 0.02%

Synonym:

3',3''-Dibromothymolsulfonphthalein

$C_{27}H_{28}Br_2O_5S$   
Molecular Weight: 624,39  
CAS: 76-59-5

### Bromothymol blue 0.02% > RPE - For analysis

RPE

Description ..... Dark green liquid    Identification ..... Positive    pH at 20° C ..... 6.7 ÷ 6.9

Code	Size	Packaging	Notes
428731	100 ml	Glass bottle	

Dye for microscopy

**Bromothymol blue solution**

Blu bromotimolo soluzione • Bleu de bromothymol solution • Azul de bromotimol solución

Synonym:

3',3''-Dibromothymolsulfonphthalein

C<sub>27</sub>H<sub>28</sub>Br<sub>2</sub>O<sub>5</sub>S  
Molecular Weight: 624,39  
CAS: 76-59-5**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group II**Danger**  
H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235**Bromothymol blue solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611012901	100 ml	Plastic bottle	Bromothymol blue solution R1 Ref Ph.Eur 1012901/ Colour change : pH 5.8 (yellow) to pH 7.4 (blue)
611012903	100 ml	Plastic bottle	Bromothymol blue solution R3 Ref Ph.Eur 1012903

**BSA ▶ n,o-Bis(trimethylsilyl)acetamide****BSTFA ▶ n,o-Bis(trimethylsilyl)-trifluoroacetamide****Buffer acetate pH 4.5**

Tampono acetato pH 4.5 • Tampon acétate pH 4.5 • Tampón acetato pH 4,5

**Buffer acetate pH 4.5 > RS - For analysis**

RS

Temperature of measurement ..... 19 - 21 °C    pH..... 4.3 - 4.7 unite pH

Code	Size	Packaging	Notes
PS0784/95	5 l	Kubidos	

**Composition : sodium acetate anhydrous 164g/l, acetic acid 168g/l, deionized water 763g/l****Buffer pH 1**

Tampono pH 1 • Tampon pH 1 • Tampón pH 1

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group II**Danger**  
H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Buffer pH 1 > RPE - For analysis**

RPE

pH..... 0.98 - 1.02 unite pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486211	500 ml	Plastic bottle	

**Composition: Glycolle/ Sodium Chloride/Hydrochloric acid. Standardized against NIST reference materials****Buffer pH 1 > RPE - NORMEX - For analysis**

RPE

Code	Size	Packaging	Notes
486221		Plastic vial	To dilute to 500 ml

**Composition: Glycolle/ Sodium Chloride/Hydrochloric acid. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package****Buffer pH 1.68**

Tampono pH 1.68 • Tampon pH 1.68 • Tampón pH 1.68

**Buffer pH 1.68 > RS - For analysis according to Ph. Eur. Chap. 2.2.3**

RS

Code	Size	Packaging	Notes
612203168	500 ml	Plastic bottle	pH 1.68 at 25°C

**Composition : Potassium tetraoxalate 0.05 M**

## Buffer pH 1.68 > RPE - For analysis

**RPE**

Clear, colourless solution ..... Conform pH ..... 1.66 - 1.70 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486751	500 ml	Plastic bottle	

**Composition: Potassium oxalate tetra-acid. Standardized against NIST reference materials**



## Buffer pH 2

Tampone pH 2 • Tampon pH 2 • Tampón pH 2

## Buffer pH 2 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614000200	1 l	Plastic bottle	Ref Ph.Eur 4000200

## Buffer pH 2 > RPE - For analysis

**RPE**

pH ..... 1.98 - 2.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486231	500 ml	Plastic bottle	

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Standardized against NIST reference materials**

## Buffer pH 2 > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 1.95 ÷ 2.05

Code	Size	Packaging	Notes
486241		Plastic vial	To dilute to 500 ml

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 3

Tampone pH 3 • Tampon pH 3 • Tampón pH 3

HEU210

## Buffer pH 3 > RPE - For analysis

**RPE**

pH ..... 2.98 - 3.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486251	500 ml	Plastic bottle	
486252	1l	Plastic bottle	

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Standardized against NIST reference materials**

## Buffer pH 3 > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 2.95 ÷ 3.05

Code	Size	Packaging	Notes
486261		Plastic vial	To dilute to 500 ml

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 3.5

Tampone pH 3.5 • Tampon pH 3.5 • Tampón pH 3.5

**Classification transport**  
 ONU: 1789  
 Transport Hazard class: 8  
 Packing group II



**Warning**  
 H315-H319-H335  
 P264-P271-P280-P304+P340-P305+P351+P338-P312a

## Buffer pH 3.5 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614000601	250 ml	Plastic bottle	Ref Ph.Eur 4000600
614000600	1 l	Plastic bottle	Ref Ph.Eur 4000600



## Buffer pH 3.56

Tampone pH 3.56 • Tampon pH 3.56 • Tampón pH 3.56

### Buffer pH 3.56 > RPE - For analysis

RPE

pH..... 3.54 - 3.58 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486741	500 ml	Plastic bottle	

**Composition: Potassium tartrate acid. Standardized against NIST reference materials**



## Buffer pH 3.7

Tampone pH 3.7 • Tampon pH 3.7 • Tampón pH 3.7

### Buffer pH 3.7 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614000900	1 l	Plastic bottle	Ref Ph.Eur 4000900



## Buffer pH 4

Tampone pH 4 • Tampon pH 4 • Tampón pH 4

### Buffer pH 4 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203401	500 ml	Plastic bottle	pH 4.01 at 25°C

**Composition : Potassium hydrogen phthalate 0.05 M**

### Buffer pH 4 > RPE - For analysis

RPE

pH..... 3.98 - 4.02 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486271	500 ml	Plastic bottle	
486273	1 l	Plastic bottle	
486274	5 l	Kubidos	
486276	10 l	Kubidos	

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 4 > RPE - For analysis - Coloured solution

RPE

pH..... 3.98 - 4.02 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486761	500 ml	Plastic bottle	Color : Red
486762	1 l	Plastic bottle	Color : Red

**Composition: Potassium phthalate acid. Standardized against NIST reference materials**

### Buffer pH 4 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 3.95 ÷ 4.05

Code	Size	Packaging	Notes
486281		Plastic vial	To dilute to 500 ml

**Composition: Citric acid/Hydrochloric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

### Buffer pH 4 > RPE - NORMEX - For analysis - Coloured solution

RPE

Description ..... Red clear liquid    Identification ..... Positive    pH at 20° C ..... 3.95 ÷ 4.05

Code	Size	Packaging	Notes
486291		Plastic vial	Color : red - To dilute to 500 mL

**Composition: Potassium phthalate acid. Traceable to NIST. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 4.62

Tampone pH 4.62 • Tampon pH 4.62 • Tampón pH 4.62

HEU210

### Buffer pH 4.62 > RPE - For analysis

RPE

pH..... 4.60 - 4.64 unità pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486841	500 ml	Plastic bottle	

**Composition: Sodium acetate / Acetic acid. Standardized against NIST reference materials**



## Buffer pH 5

Tampone pH 5 • Tampon pH 5 • Tampón pH 5



### Warning

H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

### Buffer pH 5 > RPE - For analysis

RPE

pH..... 4.98 - 5.02 unità pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486311	500 ml	Plastic bottle	

**Composition: Citric acid/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 5 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 4.95 ÷ 5.05

Code	Size	Packaging	Notes
486301		Plastic vial	To dilute to 500 ml

**Composition: Citric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 5.2

Tampone pH 5.2 • Tampon pH 5.2 • Tampón pH 5.2

### Buffer pH 5.2 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614001700	1 l	Plastic bottle	Ref Ph.Eur 4001700



## Buffer pH 6

Tampone pH 6 • Tampon pH 6 • Tampón pH 6

### Classification transport

ONU: 1824  
Transport Hazard class: 8  
Packing group III



### Warning

H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

### Buffer pH 6 > RPE - For analysis

RPE

pH..... 5.98 - 6.02 unità pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486331	500 ml	Plastic bottle	

**Composition: Citric acid/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 6 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 5.95 ÷ 6.05

Code	Size	Packaging	Notes
486321		Plastic vial	To dilute to 500 ml

**Composition: Citric acid/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**





## Buffer pH 6.8

Tampone pH 6.8 • Tampon pH 6.8 • Tampón pH 6.8

### Buffer pH 6.8 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 6.75 ÷ 6.85

Code	Size	Packaging	Notes
486401		Plastic vial	To dilute to 500 ml

**Composition: Potassium phosphate monobasic/ Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 6.88

Tampone pH 6.88 • Tampon pH 6.88 • Tampón pH 6.88

### Buffer pH 6.88 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203687	500 ml	Plastic bottle	pH 6.87 at 25°C

**Composition : Potassium dihydrogen phosphate 0.025 M + disodium hydrogen phosphate 0.025 M**

### Buffer pH 6.88 > RPE - For analysis

RPE

pH ..... 6.86 - 6.90 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486871	500 ml	Plastic bottle	

**Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Standardized against NIST reference materials**



## Buffer pH 7

Tampone pH 7 • Tampon pH 7 • Tampón pH 7

### Buffer pH 7 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614003500	1 l	Plastic bottle	Ref Ph.Eur 4003500

### Buffer pH 7 > RPE - For analysis

RPE

pH ..... 6.98 - 7.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486451	500 ml	Plastic bottle	
486453	1 l	Plastic bottle	
486454	5 l	Kubidos	
486456	10 l	Kubidos	
486455	25 l	Plastic tank	

**Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Standardized against NIST reference materials**

### Buffer pH 7 > RPE - For analysis - Coloured solution

RPE

Appearance ..... Green clear solution pH ..... 6.98 - 7.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486791	500 ml	Plastic bottle	Color : Green
486792	1 l	Plastic bottle	Color : Green

**Composition: Potassium phosphate monobasic/Sodium phosphate dibasic / Color: Green Standardized against NIST reference materials**

### Buffer pH 7 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 6.95 ÷ 7.05

Code	Size	Packaging	Notes
486421		Plastic vial	To dilute to 500 ml

**Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Buffer pH 7 > RPE - NORMEX - For analysis - Coloured solution

RPE

Description ..... Yellow clear liquid Identification ..... Positive pH at 20° C ..... 6.95 ÷ 7.05

Code	Size	Packaging	Notes
486431		Plastic vial	Color : yellow - To dilute to 500 mL

**Composition: Potassium phosphate monobasic / sodium phosphate dibasic. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 7.2

Tampone pH 7.2 • Tampon pH 7.2 • Tampón pH 7.2

## Buffer pH 7.2 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 7.15 ÷ 7.25

Code	Size	Packaging	Notes
486441		Plastic vial	To dilute to 500 ml

**Composition: Potassium phosphate monobasic / sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 7.20 Weise

Tampone pH 7.20 secondo Weise • Tampon pH 7.20 selon Weise • Tampón pH 7.20 según Weise

## Buffer pH 7.20 Weise > RS - For analysis

RS

Description ..... Clear colourless liquid Identification ..... Conform pH at 20° C ..... 7.2 ± 0.05

Code	Size	Packaging	Notes
486411	500 ml	Plastic bottle	



## Buffer pH 7.4

Tampone pH 7.4 • Tampon pH 7.4 • Tampón pH 7.4

## Buffer pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

RS

Code	Size	Packaging	Notes
612203741	500 ml	Plastic bottle	pH 7.41 at 25°C

**Composition : Potassium dihydrogen phosphate 0.0087 M + disodium hydrogen phosphate 0.0303 M**

## Buffer pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614004600	1 l	Plastic bottle	Ref Ph.Eur 4004600

## Buffer pH 7.4 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 7.35 ÷ 7.45

Code	Size	Packaging	Notes
486461		Plastic vial	To dilute to 500 ml

**Composition: Potassium phosphate monobasic / sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 8

Tampone pH 8 • Tampon pH 8 • Tampón pH 8

HEU210

## Buffer pH 8 > RPE - For analysis

RPE

pH ..... 7.98 - 8.02 unità pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486541	500 ml	Plastic bottle	
486542	1 l	Plastic bottle	

**Composition: Boric acid/Sodium hydroxide/Hydrochloric acid. Standardized against NIST reference materials**

## Buffer pH 8 > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 7.95 ÷ 8.05

Code	Size	Packaging	Notes
486531		Plastic vial	To dilute to 500 ml

**Composition: Boric acid/Sodium hydroxide/Hydrochloric acid. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 9

Tampone pH 9 • Tampon pH 9 • Tampón pH 9

HEU210

## Buffer pH 9 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614007000	1 l	Plastic bottle	Ref Ph.Eur 4000700

## Buffer pH 9 > RPE - For analysis

**RPE**

pH ..... 8.98 - 9.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486591	500 ml	Plastic bottle	
486593	1 l	Plastic bottle	
486594	5 l	Kubidos	

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Standardized against NIST reference materials**

## Buffer pH 9 > RPE - For analysis - Coloured solution

**RPE**

pH ..... 8.98 - 9.02 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0427/19	500 ml	Plastic bottle	Color : Blue
PS0427/15	1 l	Plastic bottle	Color : Blue

**Composition : Boric acid/Sodium hydroxide/Potassium chloride/Methylene blue. Traceable to NIST**

## Buffer pH 9 > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 8.95 ÷ 9.05

Code	Size	Packaging	Notes
486571		Plastic vial	To dilute to 500 ml

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 9.22

Tampone pH 9.22 • Tampon pH 9.22 • Tampón pH 9.22

HEU210

## Buffer pH 9.22 > RS - For analysis according to Ph. Eur. Chap. 2.2.3

**RS**

Code	Size	Packaging	Notes
612203918	500 ml	Plastic bottle	pH 9.18 at 25°C

**Composition : Disodium tetraborate 0.01 M**

## Buffer pH 9.22 > RPE - For analysis

**RPE**

pH ..... 9.20 - 9.24 unité pH Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486881	500 ml	Plastic bottle	

**Composition: Sodium tetraborate. Standardized against NIST reference materials**



## Buffer pH 10

Tampone pH 10 • Tampon pH 10 • Tampón pH 10



### Danger

H314-H318

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Buffer pH 10 > RS - For analysis according to AFNOR T90-003 normative

RS

pH..... 9 - 11 unite pH    Temperature of measurement..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0200/15	1 l	Plastic bottle	
PS0200/95	5 l	Kubidos	

**Determination of the total concentration of Ca and Mg. Composition: ammonium chloride 64.5 g / l, ammonia 28% 440g / l EDTA-Mg 4.8 g / l deionized water 461.5 g / l**

### Buffer pH 10 > RPE - For analysis

RPE

Clear, colourless solution ..... Conform    pH..... 9.95 - 10.05 unite pH    Temperature of measurement..... 19 - 21 °C

Code	Size	Packaging	Notes
486611	500 ml	Plastic bottle	
486613	1 l	Plastic bottle	
486614	5 l	Kubidos	
486615	10 l	Kubidos	

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Standardized against NIST reference materials**

### Buffer pH 10 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 9.95 ÷ 10.05

Code	Size	Packaging	Notes
486601		Plastic vial	To dilute to 500 ml

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 10.06

Tampone pH 10.06 • Tampon pH 10.06 • Tampón pH 10.06

HEU210

### Buffer pH 10.06 > RPE - For analysis - Coloured solution

RPE

Appearance ..... Blue clear solution    pH..... 10.01 - 10.11 unite pH    Temperature of measurement..... 19 - 21 °C  
Description ..... Blue clear liquid    Identification ..... Positive    pH at 20° C ..... 10.01 ÷ 10.11

Code	Size	Packaging	Notes
486811	500 ml	Plastic bottle	Color : Blue
486812	1 l	Plastic bottle	Color : Blue

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Standardized against NIST reference materials**

### Buffer pH 10.06 > RPE - NORMEX - For analysis - Coloured solution

RPE

Description ..... Blue clear liquid    Identification ..... Positive    pH at 20° C ..... 10.01 ÷ 10.11

Code	Size	Packaging	Notes
486581		Plastic vial	Color : blue - To dilute to 500 mL

**Composition: Sodium carbonate/Sodium bicarbonate. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 11

Tampone pH 11 • Tampon pH 11 • Tampón pH 11

### Buffer pH 11 > RPE - For analysis

RPE

Appearance ..... Clear colourless solution    pH..... 10.98 - 11.02 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486771	500 ml	Plastic bottle	
486772	1 l	Plastic bottle	

**Composition: Sodium phosphate dibasic / Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 11 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 10.95 ÷ 11.05

Code	Size	Packaging	Notes
486631		Plastic vial	To dilute to 500 ml

**Composition: Boric acid/Sodium hydroxide/Potassium chloride. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 12

Tampone pH 12 • Tampon pH 12 • Tampón pH 12

### Buffer pH 12 > RPE - For analysis

RPE

pH..... 11.95 - 12.05 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486691	500 ml	Plastic bottle	

**Composition: Sodium phosphate/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 12 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 11.95 ÷ 12.05

Code	Size	Packaging	Notes
486621		Plastic vial	To dilute to 500 ml

**Composition: Sodium phosphate/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Buffer pH 13

Tampone pH 13 • Tampon pH 13 • Tampón pH 13

### Buffer pH 13 > RPE - For analysis

RPE

Clear, colourless solution ..... Conform    pH..... 12.95 - 13.05 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
486701	500 ml	Plastic bottle	

**Composition: Potassium Chloride/Sodium hydroxide. Standardized against NIST reference materials**

### Buffer pH 13 > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 12.95 ÷ 13.05

Code	Size	Packaging	Notes
486641		Plastic vial	To dilute to 500 ml

**Composition: Potassium Chloride/Sodium hydroxide. Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

**1,3-Butanediol**  
 1,3-Butandiol • 1,3-Butanediol • 1,3-Butanodiol

Synonym:  
 1,3-Butylene glycol

CH2OHCH2CHOHCH3  
 Molecular Weight: 90,12  
 CAS: 107-88-0  
 EEC-N: 203-529-7

### 1,3-Butanediol > RE - Pure

RE

Description ..... Yellow clear liquid      Density at 20° C ..... 1.000 ÷ 1.010      Assay (GLC) ..... ≥98 %  
 Identification ..... Positive      Boiling point ..... 206.0 ÷ 207.0 °C

Code	Size	Packaging	Notes
431302	1 l	Glass bottle	

**1-Butanesulfonic acid sodium salt**  
 Acido 1-butansolfonico sale sodico • Acide 1-butanesulfonique sel sodique • Acido 1-butanossulfónico sal sódica

Synonym:  
 Sodium 1-butanesulfonate  
 1-Butanesulfonic acid sodium salt

CH2(CH2)2SO3Na  
 Molecular Weight: 160,17  
 CAS: 2386-54-1

### 1-Butanesulfonic acid sodium salt > RS - For ion pair chromatography

RS

Description ..... White powder      **Absorbance (5.5% in water)**      At 250 nm ..... ≤ 0.04 AU  
 Water (K.F.) ..... ≤ 1.0 %      At 210 nm ..... ≤ 1.0 AU      At 280 nm ..... ≤ 0.04 AU  
 Assay ..... ≥ 99.0 %      At 220 nm ..... ≤ 0.1 AU

Code	Size	Packaging	Notes
405631	25 g	Glass bottle	
405632	100 g	Plastic bottle	

**Butanol-1**  
 1-Butanolo • Butanol-1 • Butanol-1

Synonym:  
 1-Butanol  
 Butyl alcohol

CH3(CH2)2CH2OH  
 Molecular Weight: 74,12  
 CAS: 71-36-3  
 EEC-N: 200-751-6

**Classification transport**  
 ONU: 1120  
 Transport Hazard class: 3  
 Packing group III

**Danger**  
 H226-H302-H315-H318-H335-H336  
 P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Butanol-1 > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid      Boiling point ..... 117.0 ÷ 118.0 °C      Assay (GLC) ..... ≥99.8 %      at 310 nm ..... ≥98 %  
 Identification ..... Positive      Residue on evaporation ..... ≤5 ppm      **U.V. Transmittance**  
 Density at 20° C ..... 0.809 ÷ 0.811      Water (K.F.) ..... ≤0.1 %      at 210 nm ..... ≥10 %  
 Refractive index at 20°C ..... 1.3972 ÷ 1.4012      Acidity or alkalinity ..... ≤0.0005 meq/g      at 235 nm ..... ≥80 %

Code	Size	Packaging	Notes
412511000	1 l	Glass bottle	
412512000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

### Butanol-1 > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.397 - 1.401      Non volatile residue ..... ≤ 10 mg/Kg      Free acid (as CH3COOH) ..... ≤ 20 mg/Kg  
 Water content (K.F.) ..... ≤ 400 mg/Kg      Colour ..... ≤ 10 Hazen      Assay (GC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
P0171010	200 ml	Bottle with septum	
P0171016	1 l	Glass bottle	

## Butanol-1 > RPE - For analysis - ISO

**RPE**

Description .....	Clear liquid	Acidity .....	≤ 0.0008 meq/g	Ready carbonizable substances.....	Conform	Fe .....	≤ 0.1 ppm
Colour (APHA) .....	≤ 10	Alcalinity (NaOH).....	≤ 5 ppm	Al .....	≤ 0.5 ppm	Mg .....	≤ 0.1 ppm
Identification (I.R.).....	Conform	Carbonyl Compounds (CO).....	≤ 100 ppm	Ba .....	≤ 0.1 ppm	Mn .....	≤ 0.02 ppm
Water solubility.....	Conform	Acetone .....	≤ 0.01 %	Ca .....	≤ 0.5 ppm	Ni .....	≤ 0.02 ppm
Density at 20° C .....	0.808 ÷ 0.810	Isobutanolo .....	≤ 0.15 %	Cd .....	≤ 0.05 ppm	Pb .....	≤ 0.1 ppm
Boiling point.....	116 ÷ 119 ° C	2-Butanolo.....	≤ 0.05 %	Co .....	≤ 0.02 ppm	Zn .....	≤ 0.1 ppm
Water (K.F.) .....	≤ 0.1 %	di-Butiletere.....	≤ 0.1 %	Cr .....	≤ 0.02 ppm	Assay (GLC) .....	≥ 99.5 %
Residue on evaporation .....	≤ 10 ppm	Aldeide butirrica .....	≤ 0.02 %	Cu .....	≤ 0.02 ppm		

Code	Size	Packaging	Notes
414131	1 l	Glass bottle	
414133	2.5 l	Glass bottle	
414132	22 kg	Metal drum	

## Butanol-1 > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.808 ÷ 0.812	Water (K.F.) .....	≤ 0.1 %	Acidity .....	≤ 0.0008 meq/g
Colour .....	≤ 10 APHA	Refractive index at 20°C.....	1.397 - 1.401	Acidity (butirric acid).....	≤ 50 ppm	Assay (GLC) .....	≥ 99 %
Identification .....	Positive	Boiling point.....	116.8 ÷ 118.3 °C	Residue on evaporation .....	≤ 50 ppm		

Code	Size	Packaging	Notes
308251	1 l	Glass bottle	
528300	5 l	Plastic tank	
308257	22 kg	Metal drum	
528301	25 l	Metal drum	
308259	160 kg	Metal drum	



## Butanol-2

2-Butanolo • Butanol-2 • Butan-2-olo

 Synonym:  
 2-Butanol  
 sec-Butyl alcohol

$\text{CH}_3\text{CHOHCH}_2\text{CH}_3$   
 Molecular Weight: 74,12  
 CAS: 78-92-2  
 EEC-N: 201-158-5

**Classification transport**  
 ONU: 1120  
 Transport Hazard class: 3  
 Packing group III


**Warning**

H226-H319-H335-H336  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

## Butanol-2 > RPE - For analysis - Reag. Ph.Eur.

**RPE**

Description .....	Clear liquid	Density at 20° C .....	0.801 ÷ 0.811	Residue on evaporation .....	≤ 20 ppm	Assay (GLC) .....	≥ 99.0 %
Colour (APHA) .....	≤ 10	Refractive index at 20°C.....	1.3944 ÷ 1.3984	Acidity (butirric acid).....	≤ 20 ppm		
Identification .....	Positive	Boiling point.....	99 - 100 °C	Alcalinity (NaOH).....	≤ 10 ppm		
Water solubility.....	Conform	Water (K.F.) .....	≤ 0.2 %	Indole base .....	≤ 0.1 ppm		

Code	Size	Packaging	Notes
414264	1 l	Glass bottle	
414266	15 kg	Metal drum	
414261	160 kg	Metal drum	



## tert-Butanol

Alcole ter-butílico • tert-Butanol • Alcohol ter-butílico

 Synonym:  
 2-Methyl-2-propanol  
 tert-Butyl alcohol

$(\text{CH}_3)_3\text{COH}$   
 Molecular Weight: 74,12  
 CAS: 75-65-0  
 EEC-N: 200-889-7

**Classification transport**  
 ONU: 1120  
 Transport Hazard class: 3  
 Packing group II


**Danger**

H225-H332-H319-H335  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

## tert-Butanol > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C.....	1.386 - 1.39	Water content (K.F.) .....	≤ 200 mg/Kg	Assay (GC) .....	≥ 99.7 %
Colour .....	≤ 10 Hazen	Non volatile residue .....	≤ 10 mg/Kg	2- Propanol.....	≤ 0.30 %

Code	Size	Packaging	Notes
P0191016	1 l	Glass bottle	

## tert-Butanol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear colourless liq. or solid	Water solubility.....	Conform	Melting point.....	25 ÷ 26 ° C	Acidity .....	≤ 0.001 meq/g
Colour (APHA) .....	≤10	Alcohol miscibility.....	Conform	Water (K.F.) .....	≤0.1 %	Assay (GLC) .....	≥99.5 %
Identification (I.R.).....	Conform	Boiling point.....	81.7 ÷ 82.7 ° C	Residue on evaporation .....	≤30 ppm	Carbonyl compounds (as HCHO) ..	≤ 0.01 %

Code	Size	Packaging	Notes
414343	500 ml	Plastic bottle	
414341	1 l	Glass bottle	
414346	2.5 l	Plastic bottle	
414342	25 l	Plastic tank	

## tert-Butanol > RE - Pure

**RE**

Refractive index at 20°C.....	1.386 - 1.39	Water content (K.F.) .....	≤ 800 mg/Kg	Assay (GC) .....	≥ 99.5 %
Colour .....	≤ 10 Hazen	Non volatile residue .....	≤ 20 mg/Kg		

Code	Size	Packaging	Notes
P0190222	5 l	Plastic tank	
P0190268	200 l	Metal drum	

## 2-Butanone ▶ Ethyl methyl ketone



### 2-Butoxy ethanol

2-Butossietanolo • 2-Butoxyéthanol • 2-Butoxietanol

Synonym:

 Ethylene glycol butyl ether  
Butyl glycol

$\text{CH}_3(\text{CH}_2)_3\text{OCH}_2\text{CH}_2\text{OH}$   
 Molecular Weight: 118,18  
 CAS: 111-76-2  
 EEC-N: 203-905-0


**Warning**

H302-H312-H332-H315-H319  
 P264-P271-P304+P340-P305+P351+P338-P330-  
 P332+P313

## 2-Butoxy ethanol > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.897 ÷ 0.905	Boiling point.....	167 ÷ 172 ° C	Residue on evaporation .....	≤50 ppm
Identification .....	Positive	Refractive index at 20°C. 1.4167 ÷ 1.4207		Water (K.F.) .....	≤ 0.1 %	Assay (GLC) .....	≥ 99 %

Code	Size	Packaging	Notes
453941	1 l	Glass bottle	

## 2-Butoxy ethanol > RE - Pure

**RE**

Refractive index at 20°C.....	1.417 - 1.421	Water content (K.F.) .....	≤ 2000 mg/Kg	Colour .....	≤ 15 Hazen	Assay (GC) .....	≥ 99 %
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Code	Size	Packaging	Notes
P6310222	5 l	Plastic tank	



### 2-(2-Butoxyethoxy)ethanol

2-(2-Butossietossi)etanolo • 2-(2-Butoxyéthoxy)éthanol • 2-(2-Butoxietoxi) etanol

Synonym:

 Diethylene glycol butyl ether  
BDG

$\text{C}_8\text{H}_{18}\text{O}_3$   
 Molecular Weight: 162,23  
 CAS: 112-34-5  
 EEC-N: 203-961-6


**Warning**

H319  
 P264-P280i-P305+P351+P338-P337+P313-P501a

## 2-(2-Butoxyethoxy)ethanol > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4296 ÷ 1.4346		Alcalinity (NH3).....	≤0.85 ppm	Residue on ignition.....	≤20 ppm
Identification .....	Positive	Boiling point.....	230.0 ÷ 232.0 °C	Carbonyl Compounds (CO) .....	≤500 ppm	Fe .....	≤2 ppm
Water miscibility.....	Conform	Water (K.F.) .....	≤0.2 %	Heavy metals (Pb).....	≤2 ppm	Assay (GLC) .....	≥99 %
Density at 20° C .....	0.951 ÷ 0.959	Acidity (acetic acid).....	≤300 ppm	Peroxides (H2O2) .....	≤250 ppm		

Code	Size	Packaging	Notes
453881	1 l	Glass bottle	
453883	25 kg	Metal drum	



## 2-(2-Butoxyethoxy)ethanol > RE - Pure

**RE**

Refractive index at 20°C ..... 1.43 - 1.434    Water content (K.F.) ..... ≤ 1500 mg/Kg    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 97 %

Code	Size	Packaging	Notes
P6250222	5 l	Plastic tank	



## n-Butyl acetate

n-Butile acetato • n-butyle acétate • n-Butilo acetate

CH3COO(CH2)3CH3  
 Molecular Weight: 116,16  
 CAS: 123-86-4  
 EEC-N: 204-658-1

### Classification transport

ONU: 1123  
 Transport Hazard class: 3  
 Packing group III



### Warning

H226-H336-HEU066  
 P210-P241-P243-P303+P361+P353-P304+P340-P403+P235

## n-Butyl acetate > RS - Anhydrous - For analysis

**RS**

 Refractive index at 20°C ..... 1.392 - 1.396    Non volatile residue ..... ≤ 10 mg/Kg    Assay (GC) ..... ≥ 99.5 %  
 Water content (K.F.) ..... ≤ 100 mg/Kg    Colour ..... ≤ 10 Hazen    Free acid (as CH3COOH) ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0011016	1 l	Glass bottle	
P0011021	2.5 l	Glass bottle	

## n-Butyl acetate > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid	Water (K.F.) ..... ≤ 0.1 %	Total silicon ..... ≤ 0.02 ppm	Na ..... ≤ 0.2 ppm
Identification (I.R.) ..... Conform	Butan-1-ol ..... ≤ 0.5 %	Total sulphur ..... ≤ 0.5 ppm	Pb ..... ≤ 0.05 ppm
Ready carbonizable substances ..... Conform	n-Butyl formate ..... ≤ 0.1 %	Ca ..... ≤ 0.2 ppm	Zn ..... ≤ 0.1 ppm
Density at 20° C ..... 0.878 ÷ 0.884	Butyl propanoate ..... ≤ 0.1 %	Cu ..... ≤ 0.2 ppm	Assay (GLC) ..... ≥ 99 %
Refractive index at 20°C ..... 1.3926 ÷ 1.3976	iso-Butyl acetate ..... ≤ 0.5 %	Fe ..... ≤ 0.1 ppm	
Boiling point ..... 126.0 ÷ 127.0 °C	Residue on evaporation ..... ≤ 10 ppm	K ..... ≤ 0.2 ppm	
Acidity or alkalinity ..... ≤ 0.001 meq/g	Total phosphorus ..... ≤ 0.2 ppm	Mg ..... ≤ 0.02 ppm	

Code	Size	Packaging	Notes
431601000	1 l	Glass bottle	
431602000	2.5 l	Glass bottle	
431604	200 l	Metal drum	

## n-Butyl acetate > RE - Pure


**RE**

 Description ..... Clear colourless liquid    Refractive index at 20°C ..... 1.3911 ÷ 1.3991    Residue on evaporation ..... ≤ 100 ppm  
 Identification ..... Positive    Boiling point ..... 123 ÷ 128 °C    Acidity (acetic acid) ..... ≤ 300 ppm  
 Density at 20° C ..... 0.876 ÷ 0.886    Water (K.F.) ..... ≤ 0.1 %    Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
325602	1 l	Glass bottle	
325601	2.5 l	Glass bottle	
325604	5 l	Plastic tank	
325603	24 kg	Metal drum	

n-Butyl alcohol ► Butanol-1

sec-Butyl alcohol ► Butanol-2

	<b>n-Butyl chloride</b> n-Butile cloruro • n-Butyle chlorure • n-Butilo cloruro	Synonym: 1-Chlorobutane
	<chem>CH3(CH2)3Cl</chem> Molecular Weight: 92,57 CAS: 109-69-3 EEC-N: 203-696-6	<b>Classification transport</b> ONU: 1127 Transport Hazard class: 3 Packing group II

### n-Butyl chloride > RS - For HPLC - Isocratic Grade

**RS**

Clear, colourless liq. appearance ..... Conform	Refractive index at 20°C ..... 1.400 - 1.404	Non volatile residue ..... ≤ 10 mg/Kg	UV transmittance at 250 nm ..... ≥ 98 %
Identification ..... Conform	Water content (K.F.) ..... ≤ 100 mg/Kg	UV transmittance at 230 nm ..... ≥ 65 %	UV transmittance at 240 nm ..... ≥ 95 %
Colour ..... ≤ 10 Apha	Free acid (as HCl) ..... ≤ 10 mg/Kg	UV transmittance at 235 nm ..... ≥ 90 %	Assay (GC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
431821	1 l	Glass bottle	


### n-Butyl chloride > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid	Refractive index at 20°C. 1.3981 ÷ 1.4061	Colour ..... ≤ 10 APHA	Water (K.F.) ..... ≤ 150 ppm
Identification ..... Positive	Assay (GLC) ..... ≥ 99.5 %	1-Butanol ..... ≤ 0.05 %	Residue on evaporation ..... ≤ 10 ppm

Code	Size	Packaging	Notes
431811	100 ml	Glass bottle	
431817	1 l	Glass bottle	

## 1,3-Butylene glycol ▶ 1,3-Butanediol


	<b>Butylhydroxytoluene</b> Butile idrossitoluene • Butylhydroxytoluène • Butil hidroxitolueno	Synonym: 2,6-Di-tert-butyl-p-cresol BHT
	<chem>[(CH3)3C]2C6H2(CH3)OH</chem> Molecular Weight: 220,36 CAS: 128-37-0 EEC-N: 204-881-4	<b>Classification transport</b> ONU: 3077 Packing group III

### Butylhydroxytoluene > RPE - For analysis

**RPE**

Description ..... White semitransparent crystals	Melting point ..... 69.0 ÷ 71.0 ° C	Assay (GLC) ..... 99 ÷ 100 %
Identification ..... Positive	Residue on ignition ..... ≤ 0.1 %	

Code	Size	Packaging	Notes
432121	25 g	Glass bottle	

	<b>tert-Butylmethylether</b> ter-Butilmetiletere • tert-Butylméthyléther • ter-Butilmetiléter	Synonym: MTBE Methyl tert-butyl ether
	<chem>CH3OC4H9</chem> Molecular Weight: 88,15 CAS: 1634-04-4 EEC-N: 216-653-1	<b>Classification transport</b> ONU: 2398 Transport Hazard class: 3 Packing group II

### tert-Butylmethylether > RS - For HPLC - Isocratic Grade

**RS**

Refractive index at 20°C ..... 1.367 - 1.371	Water content (K.F.) ..... ≤ 100 mg/Kg	UV transmittance at 280 nm ..... ≥ 92 %	Non volatile residue ..... ≤ 10 mg/Kg
Clear, colourless liq. appearance ..... Conform	UV transmittance at 210 nm ..... ≥ 10 %	UV transmittance at 300 nm ..... ≥ 98 %	Hydrocarbons up to C8 ..... ≤ 0.05 %
Identification ..... Conform	UV transmittance at 230 nm ..... ≥ 40 %	Assay (GC) ..... ≥ 99.8 %	
Colour ..... ≤ 10 Apha	UV transmittance at 250 nm ..... ≥ 75 %	Methanol + tert-butanol ..... ≤ 0.05 %	

Code	Size	Packaging	Notes
432031	1 l	Glass bottle	
432032	2.5 l	Glass bottle	

## tert-Butylmethylether > RS - For preparative HPLC

**RS**

Description .....	Clear colourless liquid	Boiling point.....	54.8 ÷ 55.8 °C	Residue on evaporation .....	≤2 ppm	U.V. Transmittance	
Identification .....	Positive	Acidity or alkalinity.....	≤0.0002 meq/g	Assay (GLC) .....	≥99.5 %	at 240 nm .....	≥60 %
Density at 20° C .....	0.730 ÷ 0.750	Water (K.F.) .....	≤200 ppm			at 270 nm .....	≥95 %

Code	Size	Packaging	Notes
432022000	2.5 l	Glass bottle	

**Filtered through 2 µm membrane**

## tert-Butylmethylether > RS - PESTIPUR - For pesticide analysis

**RS**

Refractive index at 20°C.....	1.367 - 1.371	Assay (GC).....	≥ 99.8 %	Retention time trichlorobenzene to mirex	
Water content (K.F.) .....	≤ 100 mg/Kg	Non volatile residue .....	≤ 5 mg/Kg	GC-NPD.Individual peak (Ethylparathion) .....	≤ 3 ng/l
Colour .....	≤ 10 Hazen	GC-ECD.Individual peak (Lindane) .....	≤ 3 ng/l	Retention time Atrazin to Coumaphos	

Code	Size	Packaging	Notes
432061	1 l	Glass bottle	
432062	2.5 l	Glass bottle	

## tert-Butylmethylether > RS - SPECTROSOL - For optical spectroscopy

**RS**

Clear,colourless liq.appearance .....	Conform	Water content (K.F.) .....	≤ 100 mg/Kg	UV transmittance at 280 nm .....	≥ 92 %	Non volatile residue .....	≤ 10 mg/Kg
Identification .....	Conform	UV transmittance at 210 nm .....	≥ 10 %	UV transmittance at 300 nm .....	≥ 98 %	Hydrocarbons up to C8 .....	≤ 0.05 %
Colour .....	≤ 10 Apha	UV transmittance at 230 nm .....	≥ 40 %	Methanol + tert-butanol.....	≤ 0.05 %		
Refractive index at 20°C.....	1.367 - 1.371	UV transmittance at 250 nm .....	≥ 75 %	Assay (GC).....	≥ 99.8 %		

Code	Size	Packaging	Notes
432001	1 l	Glass bottle	
432002	2.5 l	Glass bottle	

## tert-Butylmethylether > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C.....	1.367 - 1.371	Non volatile residue .....	≤ 10 mg/Kg	Assay (GC).....	≥ 99.8 %	Hydrocarbons up to C8 .....	≤ 0.05 %
Water content (K.F.) .....	≤ 100 mg/Kg	Colour .....	≤ 10 Hazen	Methanol + tert-butanol.....	≤ 0.05 %		

Code	Size	Packaging	Notes
P0921016	1 l	Glass bottle	

## tert-Butylmethylether > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Boiling point.....	53 ÷ 56 °C	Methyl alcohol.....	≤0.1 %
Identification .....	Positive	Water (K.F.) .....	≤100 ppm	Refractive index at 20°C.....	1.368 ÷ 1.370
Density at 20° C .....	0.730 ÷ 0.750	Peroxides (H2O2) .....	≤10 ppm	Assay (GLC) .....	≥99.5 %

Code	Size	Packaging	Notes
432011	500 ml	Glass bottle	
432013	2.5 l	Glass bottle	
432015	20 kg	Aluminium can	

## tert-Butylmethylether > RE - Pure

**RE**

Description .....	Clear liquid	Refractive index at 20°C.1.3635 ÷ 1.3735	Water (K.F.) .....	≤ 300 ppm	Assay (GLC) .....	≥ 99.9 %	
Density at 20° C .....	0.730 ÷ 0.750	Boiling point.....	54.8 ÷ 55.8 °C	Residue on evaporation .....	≤ 30 ppm	Methanol + tert-butanol.....	≤ 0.1 %

Code	Size	Packaging	Notes
528974	1 l	Glass bottle	
528970	5 l	Plastic tank	
528971	25 l	Metal drum	
528979	200 l	Metal drum	



## n-Butyric acid

Acido n-butirrico • Acide n-butyrique • Acido n-butírico

CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>COOH  
 Molecular Weight: 88,11  
 CAS: 107-92-6  
 EEC-N: 203-532-3

**Classification transport**  
 ONU: 2820  
 Transport Hazard class: 8  
 Packing group III



**Danger**  
 H314  
 P264-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

### n-Butyric acid > RPE - For analysis - Reag. Ph.Eur.

### RPE

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.3961 ÷ 1.4021	Heavy metals (Pb).....	≤20 ppm	Fe .....	≤10 ppm
Identification .....	Positive	Boiling point..... 163.0 ÷ 164.0 °C	Residue on ignition.....	≤100 ppm	Assay (GLC) .....	≥99 %
Density at 20° C .....	0.953 ÷ 0.957	Chloride.....	Sulphate.....	≤50 ppm		

Code	Size	Packaging	Notes
403236	250 ml	Glass bottle	

**Cadmium standard solution**

Cadmio standard soluzione • Cadmium standard solution • Cadmio, solución patrón

**Danger**

H340-H350-H373-HA26

P280-P260-P201-P202-P308+P313-P314

**Cadmium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615000700	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5000700
615000709	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000701

**Cadmium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505547	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505548	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505549	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Cadmium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503491	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503495	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503493	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503497	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Cadmium standard solution > RS - Standard solution for AAS****RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
497475	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid
497471	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Cadmium standard solution > RS - NORMEX - Concentrated solution for AAS****RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
432311		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package****Cadmium standard solution > RS - Quality control standard solution for AAS (graphite furnace)****RS**

Code	Size	Packaging	Notes
504360	50 ml	Plastic bottle	conc. 5 +/- 0,5 µg/L Matrix : 2% Nitric acid



## Cadmium acetate dihydrate

Cadmio acetato diidrato • Cadmium acetate dihydrate • Cadmio acetato dihidrato

$Cd(CH_3COO)_2 \cdot 2H_2O$   
Molecular Weight: 266,52  
CAS: 5743-04-4  
EEC-N: 208-853-2

**Classification transport**  
ONU: 2570  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H312-H330-H340-H350-H361d-H372-H410-HA26  
P264-P273-P271-P284-P304+P340-P301+P310a

### Cadmium acetate dihydrate > RPE - For analysis - Reag. USP

**RPE**

Description ..... White crystals Nitrate ..... ≤ 30 ppm Cu ..... ≤ 10 ppm Zn ..... ≤ 500 ppm  
Identification ..... Positive Substances not ppt. H<sub>2</sub>S ..... ≤ 0.1 % Fe ..... ≤ 10 ppm Assay (complexometric) ..... ≥ 97.5 %  
Water-insoluble matter ..... ≤ 0.005 % Sulphate ..... ≤ 50 ppm Pb ..... ≤ 50 ppm

Code	Size	Packaging	Notes
432344	100 g	Glass bottle	
432345	250 g	Plastic bottle	
432347	1 kg	Plastic bottle	



## Cadmium carbonate

Cadmio carbonato • Cadmium carbonate • Cadmio carbonato

Synonym:  
*Otavite*

$CdCO_3$   
Molecular Weight: 172,42  
CAS: 513-78-0  
EEC-N: 208-168-9

**Classification transport**  
ONU: 2570  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H312-H330-H340-H350-H361d-H372-H410-HA26  
P264-P273-P271-P284-P304+P340-P301+P310a

### Cadmium carbonate > RPE - For analysis

**RPE**

Description ..... White powder HCl-insoluble matter ..... ≤ 100 ppm Pb ..... ≥ 100 ppm  
Identification ..... Positive Cu ..... ≤ 100 ppm Assay (complexometric) ..... 97 ÷ 100 %

Code	Size	Packaging	Notes
432444	100 g	Glass bottle	
432446	500 g	Plastic bottle	



## Cadmium chloride monohydrate

Cadmio cloruro monoidrato • Cadmium chloride monohydrate • Cadmio cloruro monohidrato

$CdCl_2 \cdot H_2O$   
Molecular Weight: 201,32  
CAS: 35658-65-2  
EEC-N: 233-296-7

**Classification transport**  
ONU: 2570  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H332-H350-H372-H400-H410-HA26  
P264-P273-P271-P304+P340-P301+P310a-P308+P313

### Cadmium chloride monohydrate > RE - Pure

**RE**

Description ..... White crystals Sulphate ..... ≤ 200 ppm Pb ..... ≤ 50 ppm  
Identification ..... Positive Cu ..... ≤ 20 ppm Zn ..... ≤ 200 ppm  
Substances not ppt. H<sub>2</sub>S ..... ≤ 0.2 % Fe ..... ≤ 10 ppm Assay ..... ≥ 98 %

Code	Size	Packaging	Notes
325741	100 g	Glass bottle	



## Cadmium nitrate tetrahydrate

Cadmio nitrato tetraidrato • Cadmium nitrate tétrahydraté • Cadmio nitrato tetrahidratado

Synonym:  
*Nitric acid, cadmium salt tetrahydrate*

$Cd(NO_3)_2 \cdot 4H_2O$   
Molecular Weight: 308,47  
CAS: 10022-68-1  
EEC-N: 233-710-6

**Classification transport**  
ONU: 3087  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H301-H330-H340-H350-H360FD-H372-H410-HA26  
P221-P264-P273-P210a-P271-P304+P340

### Cadmium nitrate tetrahydrate > RPE - For analysis

**RPE**

Description ..... White crystals Chloride ..... ≤ 50 ppm Fe ..... ≤ 10 ppm Zn ..... ≤ 50 ppm  
Identification ..... Positive Ammonium ..... ≤ 300 ppm Na ..... ≤ 100 ppm Assay (complexometric) ..... ≥ 99 %  
Water-insoluble matter ..... ≤ 100 ppm Cu ..... ≤ 30 ppm Pb ..... ≤ 50 ppm

Code	Size	Packaging	Notes
432644	100 g	Glass bottle	
432645	500 g	Glass bottle	

**Caffeine anhydrous**

Caffeina anidra • Caf eine anhydre • Cafeina anhidra

Synonym:  
1,3,7-TrimethylxanthineC<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>  
Molecular Weight: 194,19  
CAS: 58-08-2  
EEC-N: 200-362-1**Classification transport**ONU: 1544  
Packing group III**Warning**H302  
P264-P270-P330-P301+P312a-P501a**Caffeine anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB****ERBApharm**

Description .....	White crystalline powder	Related substances .....	Conform Ph.Eur.	Melting point.....	235 ÷ 239 �C s.s.	Sulphate .....	≤ 500 ppm
Identification .....	Positive	Organic volatile impurities	Conform USP-NF	Loss on drying .....	≤ 0.5 %	Impurity (HPLC) .....	≤ 0.1 %
Appearance of solution .....	Conform Ph.Eur.	Ready carbonizable substances.....	Conform USP-NF	Sulphated ash .....	≤ 0.1 %	Assay (non-aqueous medium) .....	98.5 ÷ 101.0 % s.s.
Acidity .....	Conform Ph.Eur.	Other alkaloids.....	Conform USP-NF	Heavy metals (Pb).....	≤ 10 ppm	Assay (HPLC) .....	98.5 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
326356	500 g	Plastic bottle	
326357	1 kg	Plastic bottle	
326358	25 kg	Plastic bucket	

**Calcein ► Fluorexon****Calcium standard solution**

Calcio standard soluzione • Calcium standard solution • Calcio, soluci n patr n

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Danger**H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338**Calcium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615000801	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5000801
615000802	100 ml	Plastic bottle	A 100 ppm alcoholic solution : to dilute according to Ph.Eur 5000802
615000803	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5000803
615000804	100 ml	Plastic bottle	A 100 ppm solution R1: to dilute according to Ref Ph.Eur 5000804
615000809	100 ml	Plastic bottle	A 400 ppm solution : to dilute according to Ref Ph.Eur 5000800

**Calcium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505542	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505545	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505543	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Calcium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503481	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503485	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503483	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503487	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Calcium standard solution > RS - Standard solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497485	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507530	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507476	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497481	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Calcium standard solution > RS - NORMEX - Concentrated solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
432941		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Calcium standard solution > RS - Standard solution for ion chromatography

**RS**

Code	Size	Packaging	Notes
503221	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503223	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503389	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Calcium acetate anhydrous

Calcio acetato anidro • Calcium acétate anhydre • Calcio acetato anhidro

Ca(CH<sub>3</sub>COO)<sub>2</sub>.H<sub>2</sub>O  
 Molecular Weight: 158,17  
 CAS: 62-54-4  
 EEC-N: 200-540-9

## Calcium acetate anhydrous > ERBApharm - According to pharmacopoeia : BP

**ERBApharm**

Description ..... White powder Water (K.F.) ..... ≤ 7 % Sulphate ..... ≤ 600 ppm K ..... ≤ 0.1 %  
 Identification ..... Positive Alkalinity ..... Conform Al ..... ≤ 1 ppm Na ..... ≤ 0.5 %  
 Nitrate ..... Conform BP Chloride ..... ≤ 330 ppm As ..... ≤ 2 ppm Mg ..... ≤ 500 ppm  
 Ready oxidizable substances ..... Conform BP Heavy metals (Pb) ..... ≤ 20 ppm Ba ..... ≤ 50 ppm Assay (complexometric) 98.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
326511	1 kg	Plastic bottle	
326512	5 kg	Plastic jar	
326513	25 kg	Plastic bucket	

## Calcium acetate anhydrous > RE - Pure

**RE**

Description ..... White powder Chloride ..... ≤ 500 ppm Heavy metals (Pb) ..... ≤ 5 ppm Fe ..... ≤ 10 ppm  
 Identification ..... Positive Water-insoluble matter ..... ≤ 500 ppm Sulphate ..... ≤ 500 ppm Assay ..... ≥ 99 %  
 pH sol. 1% ..... 7 ÷ 8 Loss on drying ..... ≤ 6 % As ..... ≤ 2 ppm

Code	Size	Packaging	Notes
326507	1 kg	Plastic bottle	
326503	25 kg	Plastic bucket	





## Calcium acetate monohydrate

Calcio acetato monoidrato • Calcium acetate monohydrate • Calcio acetato monohidrato

Ca(CH<sub>3</sub>COO)<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight: 158,17  
CAS: 5743-26-0  
EEC-N: 611-528-1

### Calcium acetate monohydrate > RPE - For analysis

RPE

Description ..... White crystalline powder  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 7.5 ÷ 8.5  
Loss on drying ..... ≤ 10 %

Chloride ..... ≤ 20 ppm  
Water insoluble substances ..... ≤ 0.01 %  
Heavy metals (Pb) ..... ≤ 10 ppm  
Nitrate ..... ≤ 20 ppm

Sulphate ..... ≤ 50 ppm  
Ba ..... ≤ 30 ppm  
Fe ..... ≤ 10 ppm  
K ..... ≤ 100 ppm

Na ..... ≤ 500 ppm  
Sr ..... ≤ 0.1 %  
Assay (complexometric) ..... ≥ 99 %

Code	Size	Packaging	Notes
432985	250 g	Plastic bottle	
432987	1 kg	Plastic bottle	
432982	25 kg	Plastic bucket	



## Calcium carbonate

Calcio carbonato • Calcium carbonate • Calcio carbonato

CaCO<sub>3</sub>  
Molecular Weight: 100,09  
CAS: 471-34-1

### Calcium carbonate > RS - For enviromental analysis

RS

Description ..... White powder  
Identification ..... Positive  
Chloride ..... < 200 ppm

Sulphate ..... < 2000 ppm  
Heavy metals (Pb) ..... < 20 ppm  
Perdita essiccamento (200°C) ..... < 0.5 %

As ..... < 4 ppm  
Acid insoluble ..... < 0.2 %  
Assay (complexometric) ..... > 98.5 % s.s.

Code	Size	Packaging	Notes
433216	500 g	Plastic bottle	

**Low content in alkali**

### Calcium carbonate > RS - For chromatography

RS

Description ..... White powder  
Identification ..... Positive

Code	Size	Packaging	Notes
433245	250 g	Plastic bottle	

### Calcium carbonate > RS - TOC standard

RS

Code	Size	Packaging	Notes
505008	100 ml	Plastic bottle	conc. 50 mg/l
505009	100 ml	Plastic bottle	conc. 100 mg/l
505012	500 ml	Plastic bottle	conc. 100 mg/l

### Calcium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder  
Identification ..... Positive  
Diluted hydrochloric acid insoluble ..... ≤ 100 ppm  
Ammonium ..... ≤ 30 ppm

Chloride ..... ≤ 10 ppm  
Fluoride ..... ≤ 15 ppm  
Sulphate ..... ≤ 100 ppm  
Heavy metals (Pb) ..... ≤ 10 ppm

Ba ..... ≤ 100 ppm  
Fe ..... ≤ 30 ppm  
K ..... ≤ 100 ppm  
Mg ..... ≤ 200 ppm

Na ..... ≤ 0.1 %  
Sr ..... ≤ 0.1 %  
Assay (complexometric) 99.0 ÷ 100.5 % s.s.  
As ..... ≤ 4 ppm

Code	Size	Packaging	Notes
433185	250 g	Plastic bottle	
433187	1 kg	Plastic bottle	
433183	25 kg	Sack	

## Calcium carbonate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

**ERBApharm**

Description .....	White powder	Magnesium and alkali metals.....	≤ 1.0 %	Fluoride .....	≤ 50 ppm	Hg.....	≤ 0.5 ppm
Identification .....	Positive	Substances insoluble in acetic acid	≤ 0.2 %	Sulphate .....	≤ 0.25 %	Pb.....	≤ 3 ppm
Barium .....	Conform Ph.Eur.	Substances insoluble in hydrochloric acid	≤ 0.2 %	Heavy metals (Pb).....	≤ 20 ppm	Assay (complexometric).....	98.5 ÷ 100.5 % s.s.
Organic volatile impurities	Conform USP-NF	Chloride.....	≤ 330 ppm	As .....	≤ 3 ppm	Origin (BSE/TSE).....	Synthesis
Loss on drying .....	≤ 2.0 %			Fe .....	≤ 200 ppm	Residual solvents (Current ICH).....	Conform

Code	Size	Packaging	Notes
327101	1 kg	Plastic bottle	
327105	25 kg	Sack	

## Calcium carbonate > RE - Pure

**RE**

Description .....	White powder	Assay (complexometric) .....	≥ 98.0 %	Apparent density .....	400 ÷ 600 g/l	As .....	≤ 5 ppm
Identification .....	Positive	Soluble alcalies(NaCO3) .....	≤ 0.26 %	Heavy metals (Pb).....	≤ 30 ppm	Fe .....	≤ 200 ppm
Loss on drying .....	≤ 2 %	Chloride.....	≤ 350 ppm	Sulphate .....	≤ 0.8 %	Assay (alkalimetric).....	98.5 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
327002	2.5 kg	Plastic jar	Light powder
327059	5 kg	Plastic jar	Heavy powder
327003	25 kg	Plastic bucket	Light powder



## Calcium chloride anhydrous

Calcio cloruro anidro • Calcium chlorure anhydre • Calcio cloruro anhidro

CaCl<sub>2</sub>  
Molecular Weight: 110,99  
CAS: 10043-52-4  
EEC-N: 233-140-8



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

## Calcium chloride anhydrous > RS - For microanalysis

**RS**

Description .....	White granules	Identification .....	Positive	Diameter.....	1 - 6 mm	Assay (complexometric) .....	≥ 96 %
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Code	Size	Packaging	Notes
433535	250 g	Plastic bottle	Granular

## Calcium chloride anhydrous > RPE - For analysis

**RPE**

Description .....	White powder	Alcalinity .....	< 0.3 %	Heavy metals (Pb).....	< 50 ppm	Mg .....	< 0.1 %
Identification .....	Positive	Water-insoluble matter .....	< 0.1 %	Ba .....	< 100 ppm	Assay (complexometric) .....	≥ 96.0 %
Acidity .....	< 50 ppm	Sulphate .....	< 500 ppm	Fe .....	< 50 ppm		

Code	Size	Packaging	Notes
433403	100 g	Plastic bottle	
433406	500 g	Plastic bottle	
433407	1 kg	Plastic bottle	
433405	25 kg	Drum	

## Calcium chloride anhydrous > RE - Pure - Powder

**RE**

Description .....	White powder	HCl-insoluble matter .....	≤ 200 ppm	Heavy metals (Pb).....	≤ 20 ppm
Identification .....	Positive	Magnesio e sali alcalini .....	≤ 5.0 %	As .....	≤ 3 ppm
Assay (complexometric) .....	93.0 ÷ 100.5 %	Fluoride .....	≤ 40 ppm	Pb .....	≤ 5 ppm

Code	Size	Packaging	Notes
328257	1 kg	Plastic bottle	
328258	5 kg	Plastic jar	
328252	25 kg	Plastic bucket	

## Calcium chloride anhydrous > RE - Pure - Granular

**RE**

Description ..... white pellets      Diameter ..... 15 - 30 mm      Assay (complexometric) ..... ≥ 90 %  
 Identification ..... Positive      Granulo 1,25-5 mm ..... ≥ 75 %

Code	Size	Packaging	Notes
328757	1 kg	Plastic bottle	Ø 1.25 - 4 mm
328807	1 kg	Plastic bottle	Ø 15-30 mm
328759	5 kg	Plastic jar	Ø 1.25 - 4 mm
328809	5 kg	Plastic jar	Ø 15-30 mm



## Calcium chloride dihydrate

Calcio cloruro biidrato • Calcium chlorure dihydraté • Calcio cloruro dihidrato

CaCl<sub>2</sub>·2H<sub>2</sub>O  
 Molecular Weight: 147,02  
 CAS: 10035-04-8  
 EEC-N: 233-140-8



### Warning

H302-H319  
 P264-P280i-P305+P351+P338-P330-P337+P313-P301+P312a

## Calcium chloride dihydrate > RPE - For analysis - ACS

**RPE**

Description ..... White crystalline powder      Heavy metals (Pb) ..... ≤ 5 ppm      K ..... ≤ 100 ppm      Sr ..... ≤ 0.1 %  
 Identification ..... Positive      Sulphate ..... ≤ 100 ppm      Mg ..... ≤ 50 ppm      Ammonium ..... ≤ 50 ppm  
 pH sol. 5% at 25° C ..... 4.5 ÷ 8.5      Ba ..... ≤ 50 ppm      Assay (complexometric) ..... 99.0 ÷ 105.0 %      Oxidizing substances ..... ≤ 30 ppm  
 Water-insoluble matter ..... ≤ 100 ppm      Fe ..... ≤ 10 ppm      Na ..... ≤ 0.02 %

Code	Size	Packaging	Notes
433386	100 g	Plastic bottle	
433387	500 g	Plastic bottle	
433381	1 kg	Plastic bottle	
433382	5 kg	Plastic jar	
433384	25 kg	Plastic bucket	

## Calcium chloride dihydrate > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-

**ERBapharm**

### DAB

Description ..... White crystalline powder      Ba ..... Conform Ph.Eur.      Heavy metals (Pb) ..... ≤ 10 ppm      Fe ..... ≤ 10 ppm  
 Identification ..... Positive      Fe,Al and Phosphate ..... Conform USP-NF      Sulphate ..... ≤ 300 ppm      Assay (complexometric) ..... 99.0 ÷ 103.0 %  
 Appearance of solution ..... Conform Ph.Eur.      Organic volatile impurities Conform USP-NF      Mg and alkaline metals ..... ≤ 0.5 %      Origin (BSE/TSE) ..... Synthesis  
 Acidity or alkalinity ..... Conform Ph.Eur.      pH (1:20) ..... 4.5 ÷ 9.2      Al ..... ≤ 1 ppm      Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
327607	1 kg	Plastic bottle	
327609	5 kg	Plastic jar	
327603	25 kg	Plastic bucket	



## Calcium chloride hexahydrate

Calcio cloruro esaidrato • Calcium chlorure hexahydraté • Calcio cloruro hexahidrato

CaCl<sub>2</sub>·6H<sub>2</sub>O  
 Molecular Weight: 219,08  
 CAS: 7774-34-7  
 EEC-N: 233-140-8



### Warning

H302-H319  
 P264-P280i-P305+P351+P338-P330-P337+P313-P301+P312a

## Calcium chloride hexahydrate > RPE - For analysis

**RPE**

Description ..... White semitransparent crystals      Phosphate ..... ≤ 10 ppm      Ba ..... ≤ 50 ppm      Pb ..... ≤ 5 ppm  
 Identification ..... Positive      Water ins.ble/ppt NH4OH ..... ≤ 100 ppm      Cu ..... ≤ 5 ppm      Zn ..... ≤ 10 ppm  
 Oxidizing substances (NO3) ..... ≤ 30 ppm      Heavy metals (Pb) ..... ≤ 5 ppm      Fe ..... ≤ 25 ppm      Assay (complexometric) ..... ≥ 98.0 %  
 pH sol. 5% at 25° C ..... 4.5 ÷ 8.5      Sulphate ..... ≤ 100 ppm      Mg ..... ≤ 50 ppm      Mn ..... ≤ 5 ppm  
 Ammonium ..... ≤ 50 ppm      As ..... ≤ 1 ppm      Ni ..... ≤ 5 ppm      Sr ..... ≤ 100 ppm

Code	Size	Packaging	Notes
433377	1 kg	Plastic bottle	
433371	5 kg	Plastic jar	
433375	25 kg	Drum	

## Calcium chloride hexahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.

**ERBApharm**

Description ..... White crystalline mass      Acidity or alkalinity.....Conform Ph.Eur.      Ba .....Conform Ph.Eur.      Mg and alkaline metals..... ≤ 0.3 %  
 Identification ..... Positive      Sulphate ..... ≤ 200 ppm      Heavy metals (Pb)..... ≤ 15 ppm      Assay (complexometric) .... 97.0 ÷ 103.0 %  
 Appearance of solution.....Conform Ph.Eur.      Al .....Conform Ph.Eur.      Fe ..... ≤ 7 ppm

Code	Size	Packaging	Notes
327507	1 kg	Plastic bottle	
327509	5 kg	Plastic jar	



## Calcium chloride solution 0.025%

Calcio cloruro soluzione 0.025% • Calcium chlorure solution 0.025% • Calcio cloruro solución 0.025%

### Calcium chloride solution 0.025% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Assay (complexometric) ..... 0.022 ÷ 0.028 %

Code	Size	Packaging	Notes
E433427	1 l	Plastic bottle	



## Calcium citrate tribasic tetrahydrate

Calcio citrato tribasico tetraidrato • Calcium citrate tribasique tétrahydraté • Calcio citrato tribásico tetrahidrato

Synonym:  
*Calcium citrate tetrahydrate*  
*Tricalcium dicitrate tetrahydrate*

$\text{Ca}_3(\text{C}_6\text{H}_5\text{O}_7)_2 \cdot 4\text{H}_2\text{O}$   
 Molecular Weight: 570,49  
 CAS: 5785-44-4  
 EEC-N: 212-391-7

### Calcium citrate tribasic tetrahydrate > RPE - For analysis

**RPE**

Description ..... White powder      Chloride..... ≤ 30 ppm      Cu ..... ≤ 10 ppm      Pb ..... ≤ 10 ppm  
 Identification ..... Positive      HCl-insoluble matter..... ≤ 0.05 %      Fe ..... ≤ 20 ppm      Assay (complexometric) ..... ≥ 98.0 %  
 As ..... ≤ 3 ppm      Heavy metals (Pb)..... ≤ 20 ppm      Mg ..... ≤ 500 ppm  
 Loss on drying at 150°C..... 10.0 ÷ 13.3 %      Sulphate ..... ≤ 200 ppm      Ni ..... ≤ 10 ppm

Code	Size	Packaging	Notes
433325	250 g	Plastic bottle	
433327	1 kg	Plastic jar	

## Calcium dihydrogenphosphate monohydrate ▶ Calcium phosphate monobasic monohydrate



## Calcium fluoride

Calcio fluoruro • Calcium fluorure • Calcio fluoruro

Synonym:  
*Fluorite*

$\text{CaF}_2$   
 Molecular Weight: 78,08  
 CAS: 7789-75-5  
 EEC-N: 232-188-7



### Warning

H315-H319-H335  
 P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Calcium fluoride > RPE - For analysis

**RPE**

Description ..... White powder      Chloride..... ≤ 0.1 %      Cr ..... ≤ 5 ppm      Mn ..... ≤ 1 ppm  
 Identification ..... Positive      Sulphate ..... ≤ 50 ppm      Cu ..... ≤ 1 ppm      Ni ..... ≤ 5 ppm  
 Loss on ignition..... ≤ 0.5 %      Co ..... ≤ 5 ppm      Fe ..... ≤ 10 ppm      Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
433585	250 g	Plastic bottle	
433587	1 kg	Plastic bottle	



## Calcium formate

Calcio formiato • Calcium formiate • Calcio formiato

Synonym:  
Formic acid calcium salt

Ca(HCOO)<sub>2</sub>  
Molecular Weight: 130,12  
CAS: 544-17-2  
EEC-N: 208-863-7



### Warning

H302-H319  
P264-P280-P305+P351+P338-P330-P337+P313-  
P301+P312a

### Calcium formate > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Assay (non-aqueous medium) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
433637	1 kg	Plastic bottle	



## Calcium gluconate

Calcio gluconato • Calcium gluconate • Calcio gluconato

C<sub>12</sub>H<sub>22</sub>CaO<sub>14</sub>·H<sub>2</sub>O  
Molecular Weight: 448,39  
CAS: 18016-24-5

### Calcium gluconate > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.

ERBApharm

Description ..... White crystalline powder Saccharose and red. sug. .... Conform Ph.Eur. Sulphate ..... ≤ 100 ppm TYMC ..... ≤ 100 CFU/g  
Identification ..... Positive Mg and alkaline metals ..... ≤ 0.4 % Assay (complexometric) ..... 98.5 ÷ 102.0 %  
Organic imp., boric ac. .... Conform Ph.Eur. Heavy metals (Pb) ..... ≤ 10 ppm TAMC ..... ≤ 1000 CFU/g

Code	Size	Packaging	Notes
330608	1 kg	Plastic bottle	
330609	5 kg	Plastic jar	



## Calcium hydroxide

Calcio idrossido • Calcium hydroxyde • Calcio hidróxido

Ca(OH)<sub>2</sub>  
Molecular Weight: 74,09  
CAS: 1305-62-0  
EEC-N: 215-137-3



### Danger

H315-H318  
P264-P280-P305+P351+P338-P332+P313-  
P302+P352a-P321

### Calcium hydroxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder Total sulphur ..... ≤ 0.1 % Assay (alkalimetric) ..... ≥ 95.0 % Mg ..... ≤ 0.5 %  
Identification ..... Positive HCl-insoluble matter ..... ≤ 300 ppm K ..... ≤ 500 ppm  
Carbonate ..... ≤ 3.0 % Heavy metals (Pb) ..... ≤ 30 ppm Na ..... ≤ 500 ppm  
Chloride ..... ≤ 300 ppm Fe ..... ≤ 500 ppm Sr ..... ≤ 500 ppm

Code	Size	Packaging	Notes
433875	250 g	Plastic bottle	
433877	1 kg	Plastic bottle	
433873	50 kg	Plastic drum	

### Calcium hydroxide > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

ERBApharm

Description ..... White powder Organic volatile impurities Conform USP-NF Mg and alkaline metals ..... ≤ 4.0 % Sulphate ..... ≤ 0.4 %  
Identification ..... Positive HCl-insoluble matter ..... ≤ 0.5 % Assay (complexometric) ..... 95.0 ÷ 100.5 % As ..... ≤ 4 ppm  
Carbonate ..... Conform USP-NF Heavy metals (Pb) ..... ≤ 20 ppm Chloride ..... ≤ 330 ppm Assay (alkalimetric) ..... 95.0 ÷ 100.5 %

Code	Size	Packaging	Notes
331007	1 kg	Plastic bottle	
331008	5 kg	Plastic jar	
331003	25 kg	Plastic bucket	

## Calcium hydroxide > RE - Pure

**RE**

Description ..... White powder As ..... ≤ 3 ppm Assay (complexometric) ..... ≥ 95 %  
 Identification ..... Positive Heavy metals (Pb) ..... ≤ 20 ppm

Code	Size	Packaging	Notes
326454	1 kg	Plastic bottle	
326458	25 kg	Plastic bucket	



## Calcium lactate

Calcio lattato • Calcium lactate • Calcio lattato

 Synonym:  
*L-Lactic acid calcium salt*

$(\text{CH}_3\text{CHOHCOO})_2\text{Ca}\cdot 5\text{H}_2\text{O}$   
 Molecular Weight: 308,29  
 CAS: 5743-47-5  
 EEC-N: 248-953-3

## Calcium lactate > ERBapharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.

**ERBapharm**

Description ..... White crystalline powder Acidity or alkalinity ..... Conform Ph.Eur. Chloride ..... ≤ 200 ppm Sulphate ..... ≤ 400 ppm  
 Identification ..... Positive Ba ..... Conform Ph.Eur. Heavy metals (Pb) ..... ≤ 10 ppm Fe ..... ≤ 50 ppm  
 Appearance of solution ..... Conform Ph.Eur. Loss on drying ..... 22.0 ÷ 27.0 % Mg and alkaline metals ..... ≤ 1 % Assay (complexometric) 98.0 ÷ 102.0 % s.s.

Code	Size	Packaging	Notes
331407	1 kg	Plastic bottle	
331408	5 kg	Plastic jar	



## Calcium nitrate tetrahydrate

Calcio nitrato tetraidrato • Calcium nitrate tétrahydraté • Calcio nitrato tetraidrato

$\text{Ca}(\text{NO}_3)_2\cdot 4\text{H}_2\text{O}$   
 Molecular Weight: 236,15  
 CAS: 13477-34-4  
 EEC-N: 233-332-1

### Classification transport

ONU: 1454  
 Transport Hazard class: 5.1  
 Packing group III



### Danger

H272-H315-H319  
 P210-P221-P264-P280-P305+P351+P338-  
 P332+P313

## Calcium nitrate tetrahydrate > RPE - For analysis - ACS

**RPE**

Description ..... White crystals Chloride ..... ≤ 50 ppm Ba ..... ≤ 50 ppm K ..... ≤ 50 ppm  
 Identification ..... Positive Nitrite ..... ≤ 10 ppm Fe ..... ≤ 5 ppm Na ..... ≤ 100 ppm  
 pH sol. 5% at 25° C ..... 5.0 ÷ 7.0 Sulphate ..... ≤ 20 ppm Assay (complexometric) ..... 99.0 ÷ 103.0 % Sr ..... ≤ 0.05 %  
 Water-insoluble matter ..... ≤ 50 ppm Heavy metals (Pb) ..... ≤ 5 ppm Mg ..... ≤ 0.05 %

Code	Size	Packaging	Notes
433955	100 g	Plastic bottle	
433956	500 g	Plastic bottle	
433957	1 kg	Plastic bottle	
433951	5 kg	Plastic jar	

## Calcium nitrate tetrahydrate > RE - Pure

**RE**

Description ..... White crystals Ammonium ..... ≤ 0.5 % Heavy metals (Pb) ..... ≤ 50 ppm Assay (complexometric) ..... 97 ÷ 100 %  
 Identification ..... Positive Chloride ..... ≤ 500 ppm Sulphate ..... ≤ 0.1 % Fe ..... ≤ 100 ppm  
 pH sol. 5% at 25° C ..... 4.0 ÷ 7.0 Water-insoluble matter ..... ≤ 100 ppm

Code	Size	Packaging	Notes
331509	5 kg	Plastic jar	
331501	25 kg	Drum	



## Calcium oxide, lumps

Calcio ossido, pezzi • Calcium oxyde, morceaux • Calcio óxido, trozos

CaO  
Molecular Weight: 56,08  
CAS: 1305-78-8  
EEC-N: 215-138-9

### Classification transport

ONU: 1910



### Danger

H318  
P280i-P305+P351+P338-P310a

### Calcium oxide, lumps > RE - Pure

RE

Description .....Whitish lumps      Loss on ignition ..... ≤5 %      HCl-insoluble matter..... ≤0.5 %      Fe ..... ≤0.2 %  
Identification .....Positive      Carbonate..... ≤5.0 %      As ..... ≤10 ppm      Assay (alkalimetric)..... ≥95 %

Code	Size	Packaging	Notes
331557	1 kg	Plastic bottle	
331554	50 kg	Fibre drum	



## Calcium oxide, powder

Calcio ossido, polvere • Calcium oxyde, poudre • Calcio óxido, polvo

CaO  
Molecular Weight: 56,08  
CAS: 1305-78-8  
EEC-N: 215-138-9

### Classification transport

ONU: 1910



### Danger

H318  
P280i-P305+P351+P338-P310a

### Calcium oxide, powder > RE - Pure

RE

Description .....White powder      Identification .....Positive      Calcium carbonate ..... ≤10 %      Loss on ignition..... ≤5 %

Code	Size	Packaging	Notes
331567	1 kg	Plastic bottle	
331564	25 kg	Plastic bucket	



## Calcium phosphate dibasic dihydrate

Calcio fosfato bibasico diidrato • Calcium phosphate dibasique dihydraté • Calcio fosfato dibásico dihidrato

CaHPO<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight: 172,09  
CAS: 7789-77-7  
EEC-N: 231-826-1



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Calcium phosphate dibasic dihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.

ERBApharm

#### Franc.

Description ..... White crystalline powder      Loss on ignition ..... 24.5 ÷ 26.5 %      Heavy metals (Pb)..... ≤30 ppm      Assay (complexometric) .... 98.0 ÷ 105.0 %  
Identification .....Positive      Chloride..... ≤0.25 %      Sulphate ..... ≤0.5 %  
Carbonate.....Conform Ph.Eur.      Fluoride ..... ≤50 ppm      As ..... ≤3 ppm  
Ba .....Conform Ph.Eur.      HCl-insoluble matter ..... ≤0.2 %      Fe ..... ≤400 ppm

Code	Size	Packaging	Notes
330307	1 kg	Plastic bottle	
330303	25 kg	Plastic bucket	



## Calcium phosphate monobasic monohydrate

Calcio fosfato monobásico monohidrato • Calcium phosphate monobasic monohydrate •  
Calcio fosfato monobásico monohidrato

Synonym:  
*Calcium dihydrogenphosphate monohydrate*

$\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$   
Molecular Weight: 252,07  
CAS: 7758-23-8  
EEC-N: 231-837-1



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a

### Calcium phosphate monobasic monohydrate > RPE - For analysis

**RPE**

Description	White crystalline powder	Cu	≤ 50 ppm	Na	≤ 200 ppm	Zn	≤ 50 ppm
Identification	Positive	Fe	≤ 50 ppm	Cd	≤ 50 ppm	Assay (complexometric)	≥ 85 %
Chloride	≤ 50 ppm	K	≤ 100 ppm	Co	≤ 50 ppm		
Sulphate	≤ 0.1 %	Pb	≤ 50 ppm	Ni	≤ 50 ppm		

Code	Size	Packaging	Notes
433685	250 g	Plastic bottle	
433687	1 kg	Plastic bottle	



## Calcium phosphate tribasic

Calcio fosfato tribásico • Calcium phosphate tribasic • Calcio fosfato tribásico

Synonym:  
*tri-Calcium (ortho)phosphate*

$\text{Ca}_3(\text{PO}_4)_2$   
Molecular Weight: 310,18  
CAS: 7758-87-4  
EEC-N: 231-840-8

### Calcium phosphate tribasic > RPE - For analysis

**RPE**

Description	White powder	Loss on ignition	≤ 4 %	Pb	≤ 1 ppm	Zn	≤ 25 ppm
Identification	Positive	Heavy metals (Pb)	≤ 10 ppm	Assay (acidimetric)	≥ 90 %	Assay (P205)	40.5 ÷ 42 %
pH sol 10%	6.5 ÷ 7.5	As	≤ 1 ppm	Cu + Zn	≤ 50 ppm		

Code	Size	Packaging	Notes
433774	100 g	Plastic bottle	
433776	500 g	Plastic bottle	

### Calcium phosphate tribasic > ERBapharm - According to pharmacopoeia : Ph.Eur.

**ERBapharm**

Description	White powder	Loss on ignition	≤ 8.0 %	Heavy metals (Pb)	≤ 30 ppm	Fe	≤ 400 ppm
Identification	Positive	Chloride	≤ 0.15 %	Sulphate	≤ 0.5 %	Assay (complexometric)	35.0 ÷ 40.0 % Ca
HCl-insoluble matter	≤ 0.2 %	Fluoride	≤ 75 ppm	As	≤ 4 ppm		

Code	Size	Packaging	Notes
330407	1 kg	Plastic bottle	
330409	5 kg	Plastic jar	
330403	25 kg	Fibre drum	



## Calcium propionate

Calcio propionato • Calcium propionate • Calcio propionato

Synonym:  
*Propionic acid calcium salt*

$(\text{CH}_3\text{CH}_2\text{COO})_2\text{Ca}$   
Molecular Weight: 186,22  
CAS: 4075-81-4  
EEC-N: 223-795-8

### Calcium propionate > RE - Pure

**RE**

Description	White crystalline powder	pH sol. 1%	7 ÷ 10	Heavy metals (Pb)	≤ 5 ppm	Assay	≥ 97.5 % (s.s.)
Identification	Positive	Chloride	≤ 500 ppm	As	≤ 2 ppm		
Water (K.F.)	≤ 4 %	Sulphate	≤ 500 ppm	Fe	≤ 10 ppm		

Code	Size	Packaging	Notes
363974	1 kg	Plastic bottle	
363972	25 kg	Plastic bucket	





## Calcium stearate

Calcio stearato • Calcium stéarate • Calcio estearato

Synonym:  
Octadecanoic acid calcium salt  
Stearic acid calcium salt

$C_{36}H_{70}CaO_4$   
Molecular Weight: 607,04  
CAS: 1592-23-0  
EEC-N: 216-472-8

### Calcium stearate > ERBApharm - Vegetal origin - According to pharmacopoeia : USP-NF

ERBApharm

Description ..... White powder      Heavy metals (Pb)..... ≤10 ppm      Stearic acid..... ≥ 40.0 %  
Identification ..... Positive      Origin (BSE/TSE)..... Vegetable      Stearic + palmitic acid..... ≥ 90.0 %  
Loss on drying ..... ≤4.0 %      Assay (complexometric) (d.s)..... 6.4 ÷ 7.4 % (Ca)      Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
332262	2.5 kg	Plastic jar	
332261	10 kg	Plastic bucket	
332265	25 kg	Fibre drum	



## Calcium sulfate dihydrate

Calcio solfato biidrato • Calcium sulfate dihydraté • Calcio solfato dihidrato

$CaSO_4 \cdot 2H_2O$   
Molecular Weight: 172,17  
CAS: 10101-41-4  
EEC-N: 231-900-3

### Calcium sulfate dihydrate > RPE - For analysis - ACS

RPE

Description ..... White powder      HCl-insoluble matter ..... ≤ 0.02 %      K..... ≤ 50 ppm      Assay (complexometric) ..... 98 ÷ 102 %  
Identification ..... Positive      Heavy metals (Pb)..... ≤ 20 ppm      Mg ..... ≤ 0.02 %  
Carbonate..... Conform ACS      Nitrate ..... Conform ACS      Na ..... ≤ 0.02 %  
Chloride..... ≤ 50 ppm      Fe ..... ≤ 10 ppm      Sr ..... ≤ 0.05 %

Code	Size	Packaging	Notes
434155	100 g	Plastic bottle	
434156	500 g	Plastic bottle	
434151	25 kg	Plastic bucket	

### Calcium sulfate dihydrate > ERBApharm - According to pharmacopoeia : NF

ERBApharm

Description ..... White crystalline powder      Fe ..... ≤100 ppm      Loss on drying ..... 19.0 ÷ 23.0 %  
Identification ..... Positive      Heavy metals (Pb)..... ≤10 ppm      Assay ..... 98.0 ÷ 101.0 %s.s.

Code	Size	Packaging	Notes
331752	5 kg	Plastic jar	
331751	25 kg	Sack	



## Calcium sulfate hemihydrate

Calcio solfato emidrato • Calcium sulfate hemihydraté • Calcio solfato hemihidrato

$CaSO_4 \cdot 1/2H_2O$   
Molecular Weight: 145,15  
CAS: 10034-76-1

### Calcium sulfate hemihydrate > RE - Pure

RE

Description ..... White powder      Identification ..... Positive      Assay ..... ≥ 97 %

Code	Size	Packaging	Notes
331761	1 kg	Plastic bottle	
331762	5 kg	Plastic jar	
331763	25 kg	Plastic bucket	



## Calcium sulfate hemihydrate solution

Calcio solfato emidrato soluzione • Calcium sulfate hemihydraté solution • Calcio solfato hemihidrato solución

### Calcium sulfate hemihydrate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611015202	100 ml	Plastic bottle	Ref Ph.Eur 1015201
611015201	1 l	Plastic bottle	Ref Ph.Eur 1015201



## Calcon

Calcione • Calcon • Calcón

Synonym:

1-(2-Hydroxy-1-naphthylazo)-2-naphthol  
-4-sulfonic acid sodium salt

$C_{20}H_{13}N_2NaO_5S$   
Molecular Weight: 416,39  
CAS: 2538-85-4  
EEC-N: 219-810-2



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a

### Calcon > RPE - For analysis - C.I. 15705

RPE

Description ..... Deep purple powder Identification ..... Positive

Code	Size	Packaging	Notes
434171	25 g	Glass bottle	

**Complexometric indicator for Al, Fe, Zr**



## Calconcarbonic acid

Acido calconcarbonico • Acide calconecarbonique • Acido calconcarbónico

Synonym:

Calconcarboxylic acid  
3-Hydroxy-4-(2-hydroxy-4-sulfo-1-naphthylazo)  
naphthalene-2-carboxylic acid

$C_{21}H_{14}O_7N_2S$   
Molecular Weight: 438,42  
CAS: 3737-95-9  
EEC-N: 223-117-0



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Calconcarbonic acid > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... Polvere viola scura Identification ..... Positive Water ..... ≤ 10 %

Code	Size	Packaging	Notes
403308	5 g	Glass bottle	



## Calmagite

Calmagite • Calmagite • Calmagita

Synonym:

3-Hydroxy-4-(2-hydroxy-5methylphenylazo)  
-naphthalene-1-sulfonic acid

$C_{17}H_{14}N_2O_5S$   
Molecular Weight: 358,37  
CAS: 3147-14-6  
EEC-N: 221-563-0



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Calmagite > RPE - For analysis

RPE

Description ..... Black powder Identification ..... Positive

Code	Size	Packaging	Notes
434181	5 g	Glass bottle	
434182	25 g	Glass bottle	

**Suitable for the spectrophotometric determination of lanthanide**

**Camphor natural**

Canfora naturale • Camphre naturel • Alcanfor natural

Synonym:  
2-Bornanone  
2-CamphanoneC<sub>10</sub>H<sub>16</sub>O

Molecular Weight: 152,23

CAS: 464-49-3

EEC-N: 207-355-2

**Classification transport**

ONU: 2717

Transport Hazard class: 4.1

Packing group III

**Warning**

H228-H315-H319-H335

P210-P241-P264-P271-P304+P340-

P305+P351+P338

**Camphor natural > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-BP****ERBApharm**

Description ..... White crystals

Identification ..... Positive

Appearance of solution ..... Conform Ph.Eur.

Water ..... Conform Ph.Eur.

Acidity or alkalinity ..... Conform Ph.Eur.

Sostanze analoghe (GLC) ..... Conform Ph.Eur.

Melting point ..... 175 ÷ 179 °C

Specific optical rotation ... +41.0 ÷ +43.0 °

Halogenated compounds ..... ≤100 ppm

Non volat.substances ..... ≤500 ppm

Code	Size	Packaging	Notes
332356	500 g	Plastic bottle	

**Camphor synthetic**

Canfora sintetica • Camphre synthétique • Alcanfor sintético

C<sub>10</sub>H<sub>20</sub>O

CAS: 21368-68-3

EEC-N: 200-945-0

**Classification transport**

ONU: 2717

Transport Hazard class: 4.1

Packing group III

**Warning**

H228-H302-H371

P210-P241-P264-P280-P260-P330

**Camphor synthetic > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB****ERBApharm**

Description ..... White crystalline powder

Identification ..... Positive

Appearance of solution ..... Conform Ph.Eur.

Water ..... Conform Ph.Eur.

Acidity or alkalinity ..... Conform Ph.Eur.

Related substances ..... Conform Ph.Eur.

Melting point ..... 172 ÷ 180 °C

Specific optical rotation ... -0.15 ÷ +0.15 °

Halogenated compounds ..... ≤100 ppm

Non volat.substances ..... ≤500 ppm

Origin (BSE/TSE) ..... Synthesis

Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
332406	500 g	Plastic bottle	
332402	25 kg	Fibre drum	

**Canada balsam**

Balsamo del Canada • Baume du Canada • Balsamo del Canada

CAS: 8007-47-4

EEC-N: 232-362-2

**Warning**

H226

P210-P241-P243-P280a-P303+P361+P353-

P403+P235

**Canada balsam > RS - Mounting medium for microscopy****RS**

Description ..... Pale yellow dense liquid Identification ..... Positive

Code	Size	Packaging	Notes
321553	100 g	Glass bottle	
321554	250 g	Glass bottle	

**n-Caproic acid**

Acido n-caproico • Acide n-caproïque • Acido n-caproico

Synonym:  
Hexanoic acidCH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>COOH

Molecular Weight: 116,16

CAS: 142-62-1

EEC-N: 205-550-7

**Classification transport**

ONU: 2829

Transport Hazard class: 8

Packing group III

**Danger**

H314

P264-P280-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

**n-Caproic acid > RPE - For analysis****RPE**

Description ..... Yellow colourless liquid



Identification ..... Positive

Refractive index at 20°C. 1.4150 ÷ 1.4180

Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
403473	100 ml	Glass bottle	

**Capryl alcohol ▶ Octanol-1**

	<b>n-Caprylic acid</b>		Synonym: <i>Octanoic acid</i>
	Acido n-caprilico • Acide n-caprylique • Acido n-caprílico		
CH <sub>3</sub> (CH <sub>2</sub> ) <sub>6</sub> COOH Molecular Weight: 144,21 CAS: 124-07-2 EEC-N: 204-677-5	<b>Classification transport</b> ONU: 3265 Transport Hazard class: 8 Packing group III	 <b>Danger</b> H314-H412 P264-P273-P301+P330+P331-P303+P361+P353- P304+P340-P305+P351+P338	

<b>n-Caprylic acid &gt; RE - Pure</b>				<b>RE</b>
Description .....	Yellow clear liquid	Identification .....	Positive	Refractive index at 20°C. 1.4268 ÷ 1.4288
Assay (GLC) .....	≥ 98.5 %			
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>	
403421	250 ml	Glass bottle		

## Carbamic acid ammonium salt ▶ Ammonium carbamate

	<b>Carbolated Methylene Blue hydroalcoholic solution</b>		Synonym: <i>Octanoic acid</i>
	Blu metilene fenicato soluzione idroalcolica • Bleu de méthylène phéniqué solution hydroalcoolique • Azul de metileno fenicado solución hidroalcohólica		
	<b>Classification transport</b> ONU: 1170 Transport Hazard class: 3 Packing group III	  <b>Warning</b> H226-H315-H319-H341  P210-P241-P264-P303+P361+P353- P305+P351+P338-P403+P235	

<b>Carbolated Methylene Blue hydroalcoholic solution &gt; RS - For microscopy</b>				<b>RS</b>
Description .....	Blue clear liquid	Identification .....	Positive	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>	
428991	100 ml	Bottle		



**Dye for bacteriology. Water / ethanol mixture (70:30). Contains phenol**

	<b>Carbolated Toluidine Blue hydroalcoholic solution</b>		Synonym: <i>Octanoic acid</i>
	Blu toluidina fenicato soluzione idroalcolica • Bleu de toluidine phéniqué solution hydroalcoolique • Azul de metileno fenicado solución hidroalcohólica		
		  <b>Warning</b> H315-H319-H341 P264-P280-P305+P351+P338-P308+P313- P332+P313-P337+P313	

<b>Carbolated Toluidine Blue hydroalcoholic solution &gt; RS - For microscopy</b>				<b>RS</b>
Description .....	Blue clear liquid	Identification .....	Positive	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>	
429291	100 ml	Bottle		

**Dye for histology. Ethanol - water (10:90). Contains phenol**

## Carbon ▶ Charcoal activated

	<b>Carborundum, granules</b>		Synonym: <i>Silicon carbide</i>
	Carborundo, granulare • Carborundum, granulés • Carborundo, gránulos		
CSi Molecular Weight: 40,1 CAS: 409-21-2 EEC-N: 206-991-8		 <b>Warning</b> H315-H319-H335 P264-P271-P304+P340-P305+P351+P338-P312a- P332+P313	

<b>Carborundum, granules &gt; RPE - For analysis</b>				<b>RPE</b>
Description .....	Black granules	Loss on ignition .....	≤0.5 %	Heavy metals (Pb).....≤50 ppm
Identification .....	Positive	Chloride.....	≤100 ppm	Sulphate.....≤200 ppm
HCl solubility .....	≤0.5 %			
Fe .....	≤200 ppm			
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>	
434766	500 g	Plastic bottle		

**Carborundum, powder**

Carborundo, polvere • Carborundum, poudre • Carborundo, polvo

Synonym:  
Silicon carbideCSi  
Molecular Weight: 40,1  
CAS: 409-21-2  
EEC-N: 206-991-8**Warning**H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313**Carborundum, powder > RPE - For analysis****RPE**Description ..... Black greyish powder    Loss on ignition ..... ≤0.5 %    Fe ..... ≤0.5 %  
Identification ..... Positive    HCl solubility ..... ≤1 %

Code	Size	Packaging	Notes
434786	500 g	Plastic bottle	

**Carrez reagent potassium salt**

Carrez reattivo sale di potassio • Réactif de Carrez sel de potassium • Carrez reactivo sal de potasio

**Carrez reagent potassium salt > RS - For agroalimentary analysis****RS**

Density at 20°C ..... 1.056 ÷ 1.062

Code	Size	Packaging	Notes
502711	1 l	Glass bottle	

**Composition: according to NF V04-233: K4Fe(CN)6 3 H2O 106g water QSP 1 L****Carrez reagent zinc salt**

Carrez reattivo sale di zinco • Réactif de Carrez sel de zinc • Carrez reactivo sal de zinc

HEU210

**Carrez reagent zinc salt > RS - For agroalimentary analysis****RS**

Density at 20°C ..... 1.108 ÷ 1.114    pH at 20°C ..... 4.40 ÷ 4.60

Code	Size	Packaging	Notes
502701	1 l	Glass bottle	

**Composition: Zinc acetate dihydrate 219 g, acetic acid 30ml, water qsp 1 L****Casein**

Caseina • Caséine • Caseina

CAS: 9000-71-9  
EEC-N: 232-555-1**Casein > RS - For microscopy****RS**Description ..... Yellowish powder    Water ..... ≤ 13 %    Ash ..... ≤ 3 % (s.s.)  
Identification ..... Positive    Acidi liberi (ac. lattico) ..... ≤ 1 %    Assay (ex nitrogen) ..... ≥ 92 % s.s.

Code	Size	Packaging	Notes
435963	50 g	Plastic bottle	

**Castor oil**

Olio di ricino • Huile de ricin • Aceite de ricino

CAS: 8001-79-4  
EEC-N: 232-293-8**Warning**H319  
P305+P351+P338**Castor oil > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.****ERBApharm**

Description .....	Slightly yellow, viscous liq.	Specific absorbance at 270nm.....	≤ 0.7 AU	Ph.Eur.	Eicosenoic acid .....	≤ 1.0 %	
Appearance .....	Clear at 40°C	Acid value.....	≤ 1.5	Palmitic acid .....	≤ 2.0 %	Any other fatty acid .....	≤ 1.0 %
Identification .....	Positive	Hydroxyl value.....	≥ 160	Stearic acid.....	≤ 2.5 %	Origin (BSE/TSE).....	Vegetable
Relative density at 20°C .....	about 0.958	Peroxide value.....	≤ 10.0	Ricinoleic acid.....	85.0 - 92.0 %	Residual solvents (CPMP/ICH/283/95).....	Conform
Refractive index at 20° C.....	about 1.479	Unsaponifiable matter.....	≤ 0.8 %	<b>Oleic acid and isomers</b>		Residual solvents (Current ICH).....	Conform
Refractive index at 20°C.....	about 1.479	Water (K.F).....	≤ 0.3 %	Linoleic acid.....	2.5 - 7.0 %		
Optical rotation.....	+3.5 ÷ +6.0 °	Composition of fatty acids (GC).....	Conform	Linolenic acid.....	≤ 1.0 %		

Code	Size	Packaging	Notes
356351	1 l	Glass bottle	
356352	5 l	Aluminium can	
356353	28 kg	Metal drum	

**Cedarwood oil ▶ Oil of cedar wood****Cellulose, powder**

Cellulosa, polvere • Cellulose, poudre • Celulosa, polvo

Synonym:  
α-Cellulose  
Cotton lintersCAS: 9004-34-6  
EEC-N: 232-674-9**Cellulose, powder > RS - For chromatography****RS**

Description ..... Yellowish powder Identification ..... Positive

Code	Size	Packaging	Notes
436061	250 g	Plastic bottle	

**Ceric ammonium nitrate ▶ Cerium (IV) ammonium nitrate****Ceric ammonium sulfate dihydrate ▶ Cerium (IV) ammonium sulfate dihydrate****Cerium standard solution**

Cerío standard soluzione • Cérium standard solution • Cerio, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Cerium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505552	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505555	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Cerium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503501	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503505	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503503	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503507	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Cerium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507531	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507498	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Cerium (IV) ammonium nitrate

Cerio ammonio nitrato ico • Cérium (IV) ammonium nitrate • Cerio (IV) amonio nitrato

Synonym:

Ceric ammonium nitrate

$(\text{NH}_4)_2\text{Ce}(\text{NO}_3)_6$   
Molecular Weight: 548,23  
CAS: 16774-21-3  
EEC-N: 240-827-6

## Classification transport

ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



## Danger

H272-H318  
P221-P210a-P280a-P220-P305+P351+P338-  
P370+P378a

## Cerium (IV) ammonium nitrate &gt; RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Orange crystalline powder  
Identification ..... Positive  
H2S04-insoluble matter ..... ≤ 500 ppm

Chloride ..... ≤ 50 ppm	Assay (oxidimetric) ..... ≥ 98.5 %	Na ..... ≤ 100 ppm
Phosphate ..... ≤ 200 ppm	Fe ..... ≤ 50 ppm	Pb ..... ≤ 50 ppm
Ca ..... ≤ 50 ppm	K ..... ≤ 100 ppm	

Code	Size	Packaging	Notes
436081	50 g	Glass bottle	
436082	500 g	Glass bottle	



## Cerium (IV) ammonium nitrate 0.1 mol/l

Cerio ammonio nitrato ico 0.1 mol/l • Cérium (IV) ammonium nitrate 0.1 mol/l • Cerio (IV) amonio nitrato 0.1 mol/l

$\text{Ce}(\text{NH}_4)_2(\text{NO}_3)_6$   
Molecular Weight: 548,22  
CAS: 16774-21-3

## Classification transport

ONU: 3093  
Transport Hazard class: 8  
Packing group II



## Danger

H272-H314-H318  
P210-P221-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338

## Cerium (IV) ammonium nitrate 0.1 mol/l &gt; RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000100	1 l	Glass bottle	Ref Ph.Eur 3000100

Storage: protected from light



## Cerium (IV) ammonium nitrate 0.01 mol/l

Cerio ammonio nitrato ico 0.01 mol/l • Cérium (IV) ammonium nitrate 0.01 mol/l • Cerio (IV) amonio nitrato 0.01 mol/l

$\text{Ce}(\text{NH}_4)_2(\text{NO}_3)_6$   
Molecular Weight: 548,22  
CAS: 16774-21-3

## Cerium (IV) ammonium nitrate 0.01 mol/l &gt; RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000200	1 l	Plastic bottle	Ref Ph.Eur 3000200

Storage: protected from light



## Cerium (IV) ammonium sulfate dihydrate

Cerio ammonio solfato ico diidrato • Cérium (IV) ammonium sulfate dihydraté • Cerio (IV) amonio solfato dihidrato

Synonym:  
Ceric ammonium sulfate

$Ce(NH_4)_4(SO_4)_2 \cdot 2H_2O$   
Molecular Weight: 632,54  
CAS: 10378-47-9



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Cerium (IV) ammonium sulfate dihydrate > RPE - For analysis - ACS

RPE

Description ..... Yellow-orange powder Insoluble in diluted sulphuric acid ..... ≤ 0.05 % Fe ..... ≤ 100 ppm  
Identification ..... Positive Phosphate ..... ≤ 0.03 % Assay (oxidimetric) ..... ≥ 94 %

Code	Size	Packaging	Notes
436091	100 g	Glass bottle	
436092	500 g	Glass bottle	



## Cerium (IV) ammonium sulfate 0.1 mol/l

Cerio ammonio solfato ico 0.1 mol/l • Cérium (IV) ammonium sulfate 0.1 mol/l • Cerio (IV) amonio solfato 0.1 mol/l

$Ce(NH_4)_4(SO_4)_2 \cdot 2H_2O$   
Molecular Weight: 632,54  
CAS: 10378-47-9

### Classification transport

ONU: 2796  
Transport Hazard class: 8  
Packing group II



### Danger

H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Cerium (IV) ammonium sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000300	1 l	Plastic bottle	Ref Ph.Eur 3000300



## Cerium (IV) ammonium sulfate 0.01 mol/l

Cerio ammonio solfato ico 0.01 mol/l • Cérium (IV) ammonium sulfate 0.01 mol/l • Cerio (IV) amonio solfato 0.01 mol/l

$Ce(NH_4)_4(SO_4)_2 \cdot 2H_2O$   
Molecular Weight: 632,54  
CAS: 10378-47-9

### Cerium (IV) ammonium sulfate 0.01 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613000400	1 l	Plastic bottle	Ref Ph.Eur 3000400



## Cerium (III) nitrate hexahydrate

Cerio nitrato oso esaidrato • Cérium (III) nitrate hexahydraté • Cerio (III) nitrato hexahidratado

Synonym:  
Cerium trinitrate  
Nitric acid cerium salt

$Ce(NO_3)_3 \cdot 6H_2O$   
Molecular Weight: 434,25  
CAS: 10294-41-4  
EEC-N: 233-297-2

### Classification transport

ONU: 1477  
Transport Hazard class: 5.1  
Packing group III



### Danger

H272  
P210-P221-P280-P220-P370+P378a-P501a

### Cerium (III) nitrate hexahydrate > RE - Pure

RE

Description ..... Colourless crystals Sulphate ..... ≤ 200 ppm Na2O ..... ≤ 50 ppm Assay ..... ≥ 99.4 %  
Identification ..... Positive Fe2O3 ..... ≤ 15 ppm CaO ..... ≤ 50 ppm

Code	Size	Packaging	Notes
436203	50 g	Glass bottle	



**Cerium (IV) sulfate**

Cerio solfato ico • Cérium (IV) sulfat • Cerio (IV) sulfato

Synonym:

*Ceric sulfate tetrahydrate*

$Ce(SO_4)_2 \cdot 4H_2O$   
 Molecular Weight: 404,3  
 CAS: 10294-42-5  
 EEC-N: 237-029-5

**Warning**

H315-H319-H335  
 P264-P271-P280-P304+P340-P305+P351+P338-  
 P312a

**Cerium (IV) sulfate > RE - Pure****RE**

Description ..... Yellow powder    Chloride ..... ≤200 ppm    Fe ..... ≤500 ppm  
 Identification ..... Positive    Heavy metals (Pb) ..... ≤50 ppm    Assay (oxidimetric) ..... ≥98 % s.s.

Code	Size	Packaging	Notes
436402	25 g	Glass bottle	
436404	100 g	Glass bottle	

**Cerium (IV) sulfate 0.1 mol/l**

Cerio solfato ico 0.1 mol/l • Cérium (IV) sulfat 0.1 mol/l • Cerio (IV) sulfato 0.1 mol/l

Synonym:

*Ceric ammonium nitrate*

$Ce(SO_4)_2 \cdot 4H_2O$   
 Molecular Weight: 404,3  
 CAS: 10294-42-5

**Classification transport**

ONU: 2796  
 Transport Hazard class: 8  
 Packing group II

**Danger**

H314-H318  
 P264-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

**Cerium (IV) sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613000301	250 ml	Plastic bottle	Ref Ph.Eur 3000300
613001101	500 ml	Plastic bottle	Ref Ph.Eur 3001100
613001100	1 l	Plastic bottle	Ref Ph.Eur 3001100

**Cerium (IV) sulfate 0.1 mol/l > RPE - For analysis****RPE**

Code	Size	Packaging	Notes
436426	500 ml	Glass bottle	

**33,2 g of Ce(SO<sub>4</sub>)<sub>2</sub>. Volumetric solution ready-to-use: 0,1 N. Content is guaranteed for standardized volumes at 20 °C**

**Cesium standard solution**

Cesio standard soluzione • Césium standard solution • Cesio, solución patrón

**Classification transport**

ONU: 3264  
 Transport Hazard class: 8  
 Packing group III

**Cesium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505572	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505575	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Cesium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503531	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503535	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503533	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503537	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Cesium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507532	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507499	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Cesium chloride

Cesio cloruro • Césium chlorure • Cesio cloruro

CsCl  
Molecular Weight: 168,36  
CAS: 7647-17-8  
EEC-N: 231-600-2



### Warning

H312  
P280-P312a-P363-P302+P352a-P322-P501a

## Cesium chloride > RPE - For analysis

RPE

Description	White crystalline powder	Ba	≤ 10 ppm	K	≤ 30 ppm	Rb	≤ 50 ppm
Identification	Positive	Ca	≤ 10 ppm	Mg	≤ 5 ppm	Sr	≤ 10 ppm
Sulphate	≤ 25 ppm	Cr	≤ 2 ppm	Na	≤ 50 ppm	Assay (argentimetric)	≥ 99 %
SiO <sub>2</sub>	≤ 2 ppm	Fe	≤ 5 ppm	Mn	≤ 5 ppm		
Al	≤ 1 ppm	Li	≤ 1 ppm	Pb	≤ 5 ppm		

Code	Size	Packaging	Notes
436502	25 g	Glass bottle	
436501	50 g	Glass bottle	



## Cesium chloride 25 g/l solution

Cesio cloruro 25 g/L soluzione • Césium chlorure 25 g/l • Cesio cloruro solución 25 g/l

CsCl  
Molecular Weight: 168,36  
CAS: 7647-17-8

HEU210

## Cesium chloride 25 g/l solution > RS - Ionisation standard solution for AAS

RS

Code	Size	Packaging	Notes
504536	500 ml	Plastic bottle	25g/l Matrix : Water



## Cesium sulfate

Cesio solfato • Césium sulfate • Cesio sulfato

Cs<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 361,87  
CAS: 10294-54-9  
EEC-N: 233-662-6

## Cesium sulfate > RPE - For analysis

RPE

Description	White crystalline powder	Heavy metals (Pb)	≤ 20 ppm	K	≤ 500 ppm	Zn	≤ 50 ppm
Identification	Positive	Al	≤ 5 ppm	Mg	≤ 5 ppm	Assay (acidimetric)	≥ 99 %
Total nitrogen	≤ 30 ppm	Ca	≤ 100 ppm	Na	≤ 200 ppm		
Chloride	≤ 40 ppm	Cu	≤ 5 ppm	Ni	≤ 5 ppm		
Water-insoluble matter	≤ 50 ppm	Fe	≤ 3 ppm	Pb	≤ 5 ppm		

Code	Size	Packaging	Notes
436534	25 g	Glass bottle	

**Cetyl alcohol**

Alcole cetilico • Alcool cétylique • Alcohol cetílico

Synonym:  
1-Hexadecanol

CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>CH<sub>2</sub>OH  
 Molecular Weight: 242,44  
 CAS: 36653-82-4  
 EEC-N: 253-149-0

**Warning**

H315  
 P264-P280-P332+P313-P362-P302+P352a-P321

**Cetyl alcohol > RPE - For analysis****RPE**

Description ..... Polvere cristallina bianca o incolore Residue on ignition ..... ≤ 0.1 % Assay (GLC) ..... ≥ 95.0 %  
 Identification ..... Positive Melting point ..... 47 ÷ 50 °C

Code	Size	Packaging	Notes
414427	1 kg	Plastic bottle	

**Cetyl alcohol > ERBApharm - According to pharmacopoeia : NF-Ph.Eur.-Ph.Franc.****ERBApharm**

Description ..... White powder and flakes Melting point ..... 46 ÷ 52 °C Hydroxyl value ..... 218 ÷ 238  
 Identification ..... Positive Acid value ..... ≤ 1.0 Saponification value ..... ≤ 2.0  
 Appearance of solution ..... Conform Ph.Eur. Iodine value ..... ≤ 2.0 Assay (GLC) ..... ≥ 95 %

Code	Size	Packaging	Notes
308357	1 kg	Plastic bottle	
308358	5 kg	Plastic jar	
308359	25 kg	Plastic bucket	

**Charcoal activated**

Carbone attivo • Charbon actif • Carbón activado

Synonym:  
Carbon

C  
 Molecular Weight: 12,01  
 CAS: 7440-44-0

**Classification transport**  
 ONU: 1362  
 Transport Hazard class: 4.2  
 Packing group III

P261-P420-P402+P404-P501a

**Charcoal activated > RS - For chromatography****RS**

Description ..... Black powder Identification ..... Positive Loss on drying ..... ≤ 10 %

Code	Size	Packaging	Notes
434455	250 g	Bottle	
434454	1 kg	Bottle	

**Charcoal activated > RS - For microanalysis****RS**

Description ..... Black fine powder Identification ..... Positive

Code	Size	Packaging	Notes
434462	50 g	Glass bottle	

**Charcoal decolorizing**

Carbone decolorante • Charbon décolorant • Carbón decolorante

Synonym:  
Carbon

C  
 Molecular Weight: 12,01  
 CAS: 7440-44-0  
 EEC-N: 231-153-3

**Classification transport**  
 ONU: 1362  
 Transport Hazard class: 4.2  
 Packing group III

**Warning**

H252  
 P280a-P235+P410-P420-P407-P413a

**Charcoal decolorizing > RPE - For analysis****RPE**

Description ..... Black fine powder pH ..... 10 - 11 Ash ..... ≤ 7 %  
 Identification ..... Positive Loss on drying ..... ≤ 10 %

Code	Size	Packaging	Notes
434507	1 kg	Bottle	
434501	20 kg	Fibre drum	

**Charcoal vegetable**

Carbone vegetale • Charbon végétal • Carbón vegetal

Synonym:  
Carbon

C

Molecular Weight: 12,01  
CAS: 7440-44-0  
EEC-N: 231-153-3**Classification transport**ONU: 1361  
Transport Hazard class: 4.2  
Packing group II**Danger**H251  
P280-P235+P410-P420-P407**Charcoal vegetable > RE - Pure****RE**

Description ..... Black fine powder Identification ..... Positive

Code	Size	Packaging	Notes
332658	2.5 kg	Bottle	
332659	5 kg	Plastic jar	

**Chloral hydrate**

Cloralio idrato • Chloral hydraté • Cloral hidrato

 $\text{Cl}_3\text{CCH}(\text{OH})_2$ Molecular Weight: 165,4  
CAS: 302-17-0**Classification transport**

ONU: 2810

**Chloral hydrate > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611017901	100 ml	Plastic bottle	Ref Ph.Eur 1017901

**Chloramine T sodium salt**

Cloramina T sale sodico • Chloramine T sel sodique • Cloramina T sódica

Synonym:

*N-Chloro-p-toluenesulfonamide sodium salt* $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCINa}\cdot 3\text{H}_2\text{O}$ Molecular Weight: 227,65  
CAS: 7080-50-4  
EEC-N: 204-854-7**Classification transport**ONU: 2923  
Transport Hazard class: 8  
Packing group II**Danger**H302-H314-H334-HEU031  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P342+P311a**Chloramine T sodium salt > RPE - For analysis****RPE**Description ..... White crystalline powder pH solution 5% ..... 8.0 ÷ 10.3 Torbidità (0.5% in acqua) ..... ≤ 5 FTU  
Identification ..... Positive Colore soluzione 5% ..... ≤ 25 APHA Assay (iodometric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
437555	25 g	Glass bottle	
437554	100 g	Plastic bottle	
437557	1 kg	Plastic bottle	
437551	25 kg	Fibre drum	

**For determination of: Co, Cr, Fe, Hg, Mn, Ni, Sb****Chloranil**

Cloranile • Chloranile • Cloranilo

Synonym:

*Tetrachloro-1,4-benzoquinone*  
*Tetrachloro-p-benzoquinone*

COCCl:CClOCCl:CCl

Molecular Weight: 245,89  
CAS: 118-75-2  
EEC-N: 204-274-4**Classification transport**ONU: 3077  
Transport Hazard class: 9  
Packing group III**Warning**H315-H319-H410  
P264-P273-P280g-P305+P351+P338-P332+P313-  
P337+P313**Chloranil > RPE - For analysis****RPE**Description ..... P.v giallo bruna - verdastra Melting point ..... 290 ÷ 295 ° C Assay (GLC) ..... ≥ 99.0 %  
Identification ..... Positive Residue on ignition ..... ≤ 0.1 %

Code	Size	Packaging	Notes
437601	50 g	Glass bottle	

**Reagent for the dehydrogenation of hydroaromatic compounds**

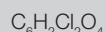


## Chloranilic acid

Acido cloranilico • Acide chloranilique • Acido cloranilico

Synonym:

2,5-Dichloro-3,6-dihydroxy-2,5-cyclohexadiene  
-1,4-dione



Molecular Weight: 208,99

CAS: 87-88-7

EEC-N: 201-780-7



### Warning

H315-H319-H335

P264-P271-P280-P304+P340-P305+P351+P338-  
P312a

### Chloranilic acid > RPE - For analysis

RPE

Description .....Red brick powder    Loss on drying ..... ≤1 %    Heavy metals (Pb)..... ≤20 ppm    Assay (argentimetric)..... ≥99 %  
Identification .....Positive    Chloride..... ≤50 ppm    Residue on ignition..... ≤0.1 %

Code	Size	Packaging	Notes
403821	10 g	Glass bottle	
403822	100 g	Glass bottle	



## Chlorate standard solution

Clorati standard soluzione • Chlorate standard solution • Clorato, solución patrón

### Chlorate standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503181	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503183	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*



## Chloride standard solution

Cloruri standard soluzione • Chlorure standard solution • Cloruro, solución patrón

### Chloride standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615000901	100 ml	Plastic bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5000901
615000909	100 ml	Plastic bottle	A 8 ppm solution : to dilute according to Ref Ph.Eur 5000900
615004100	100 ml	Plastic bottle	A 50 ppm solution : to dilute according to Ref Ph.Eur 5004100

### Chloride standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503231	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503233	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*



## Chlorite standard solution

Cloriti standard soluzione • Chlorite standard solution • Clorita, solución patrón

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group III

### Chlorite standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503191	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503193	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*



## Chloroacetamide

2-Chloroacetamide • Chloroacétamide • Cloroacetamida

CH<sub>2</sub>ClCONH<sub>2</sub>  
Molecular Weight: 93,51  
CAS: 79-07-2  
EEC-N: 201-174-2

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H317-H361f  
P264-P261-P280g-P301+P310a-P308+P313-P330

### Chloroacetamide > RPE - For analysis

**RPE**

Description ..... White crystalline powder    Melting point ..... 116 ÷ 120 °C    Assay (GLC) ..... ≥ 97.5 %  
Identification ..... Positive    Water ..... ≤ 0.2 %

Code	Size	Packaging	Notes
437704	100 g	Glass bottle	



## Chloroacetic acid

Acido cloroacetico • Acide chloroacétique • Acido cloroacetico

Synonym:  
Monochloroacetic acid

CH<sub>2</sub>ClCOOH  
Molecular Weight: 94,5  
CAS: 79-11-8  
EEC-N: 201-178-4

**Classification transport**  
ONU: 1751  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H311-H331-H314-H400  
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Chloroacetic acid > RPE - For analysis - Reag. Ph. Eur.

**RPE**

Description ..... White flakes    Identification ..... Positive    Melting point ..... 61 ÷ 63 °C    Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
404308	500 g	Plastic bottle	



## Chlorobenzene

Clorobenzene • Chlorobenzène • Clorobenceno

C<sub>6</sub>H<sub>5</sub>Cl  
Molecular Weight: 112,56  
CAS: 108-90-7  
EEC-N: 203-628-5

**Classification transport**  
ONU: 1134  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H332-H411  
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

### Chlorobenzene > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.103 ÷ 1.109    Residue on evaporation ..... ≤ 30 ppm    o- Dichlorobenzene ..... ≤ 0.01 %  
Identification ..... Positive    Refractive index at 20°C. 1.5198 ÷ 1.5298    Acidity (HCl) ..... ≤ 3 ppm    Free chlorine ..... ≤ 0.1 ppm  
Alcohol miscibility ..... Complete    Boiling point ..... 131 ÷ 133 °C    Benzene ..... ≤ 200 ppm    Assay (GLC) ..... ≥ 99.9 %  
Diethyl ether miscib. .... Complete    Water (K.F) ..... ≤ 200 ppm    p- Dichlorobenzene ..... ≤ 0.02 %

Code	Size	Packaging	Notes
438251	1 l	Glass bottle	
438255	2.5 l	Glass bottle	
438253	25 kg	Drum	
438256	200 l	Metal drum	

### Chlorobenzene > RE - Pure

**RE**

Description ..... Yellow clear liquid    Density at 20° C ..... 1.103 ÷ 1.109    Free acid (HCl) ..... ≤ 10 ppm    Residue on evaporation ..... ≤ 50 ppm  
Identification ..... Positive    Refractive index at 20°C. 1.5198 ÷ 1.5298    Benzene ..... ≤ 200 ppm    Assay (GLC) ..... ≥ 99.9 %  
Titrable base ..... Conform    Boiling point ..... 131.5 ÷ 132.5 °C    Water (K.F) ..... ≤ 500 ppm

Code	Size	Packaging	Notes
334251	1 l	Glass bottle	
334255	2.5 l	Glass bottle	
334254	30 kg	Metal drum	

## 1-Chlorobutane ► n-Butyl chloride



## Chlorobutanol

Clorobutanolo • Chlorobutanol • Clorobutanol

Synonym:

$\beta,\beta,\beta$ -Trichloro-t-butanol

$(\text{CH}_3)_2\text{COH}(\text{CCl}_3) \cdot 1/2\text{H}_2\text{O}$   
Molecular Weight: 186,46  
CAS: 6001-64-5  
EEC-N: 200-317-6



### Warning

H302-H312-H332-H315-H319  
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

### Chlorobutanol > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph.Franc.

**ERBApharm**

Description ... Colourless crystalline powder    Acidity ..... Conform Ph.Eur.    Water (K.F.) ..... 4.5 ÷ 5.5 %    Assay (argentimetric) ..98.0 ÷ 100.5 % s.s.  
Identification ..... Positive    Reaction ..... Conform USP-NF    Sulphated ash ..... ≤0.1 %    Origin (BSE/TSE)..... Synthesis  
Appearance of solution ..... Conform Ph.Eur.    Residue solvents ..... Conform USP-NF    Chloride ..... ≤100 ppm    Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
301357	1 kg	Plastic bottle	
301356	5 kg	Plastic jar	

## 1-Chloro-2,4-dinitrobenzene ▶ 2,4-Dinitrochlorobenzene



## 2-Chloroethanol solution

2-Cloroetanolo soluzione • 2-Chloroéthanol solution • 2-Cloroetanol solución

Synonym:

Ethylene chlorohydrin

$\text{C}_2\text{H}_5\text{ClO}$   
Molecular Weight: 80.51  
CAS: 107-07-3

### Classification transport

ONU: 1935  
Transport Hazard class: 6.1  
Packing group I



### Warning

H319-H336  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### 2-Chloroethanol solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611097501	100 ml	Glass bottle	Ref Ph.Eur 1097501



## 2-Chloroethylamine hydrochloride

2-Cloroetilamina cloridrato • 2-Chloroéthylamine chlorhydrate • 2-Cloroetilamonio clorhidrato

Synonym:

2-Aminoethyl chloride hydrochloride

$\text{ClCH}_2\text{CH}_2\text{NH}_2 \cdot \text{HCl}$   
Molecular Weight: 115,99  
CAS: 870-24-6  
EEC-N: 212-793-2

### 2-Chloroethylamine hydrochloride > RE - Pure

**RE**

Description ..... Cristallini biancastri    Identification ..... Positive    Assay (argentimetric) ..... ≥ 97 %

Code	Size	Packaging	Notes
438371	100 g	Plastic bottle	



## Chloroform

Cloroformio • Chloroforme • Cloroformo

Synonym:

Methylidene trichloride  
Trichloromethane

$\text{CHCl}_3$   
Molecular Weight: 119,38  
CAS: 67-66-3  
EEC-N: 200-663-8

### Classification transport

ONU: 1888  
Transport Hazard class: 6.1  
Packing group III



### Danger

H302-H331-H315-H319-H351-H361d-H372  
P264-P271-P304+P340-P305+P351+P338-P308+P313-P314

### Chloroform > RS - For HPLC - Isocratic grade - Stabilized with amylene

**RS**

Description ..... Clear colourless liquid    Water (K.F.) ..... ≤ 100 ppm    Transmittance    Methylene chloride ..... ≤ 50 ppm  
Identification (I.R.) ..... Positive    Residue on evaporation ..... ≤ 5 ppm    At 250 nm ..... ≥ 50 %    Stabilized with amylene ..... ≤ 60 ppm  
Density at 20°C ..... 1.479 - 1.483    Acidity ..... ≤ 0.0005 meq/g    At 260 nm ..... ≥ 90 %  
Refractive index at 20°C .. 1.4456 - 1.4496    Alkalinity ..... ≤ 0.0002 meq/g    At 275 nm ..... ≥ 98 %  
Boiling point ..... 61.0 - 61.5 °C    Assay (CPG) ..... ≥ 99.9 %    Carbon tetrachloride ..... ≤ 100 ppm

Code	Size	Packaging	Notes
412571	1 l	Glass bottle	
412572	2.5 l	Glass bottle	

## Chloroform > RS - For HPLC - Isocratic grade - Stabilized with ethanol

**RS**

Description .....	Clear colourless liquid	Boiling point.....	61.0 ÷ 61.5 ° C	Alcalinity.....	≤0.0002 meq/g	at 260 nm .....	≥90 %
Identification .....	Positive	Water (K.F.).....	≤ 100 ppm	Assay (GLC) .....	≥99.9 %	at 275 nm .....	≥98 %
Density at 20° C .....	1.479 ÷ 1.483	Residue on evaporation .....	≤5 ppm	<b>U.V. Transmittance</b>		Carbon tetrachloride.....	≤ 100 ppm ppm
Refractive index at 20°C.....	1.444 ÷ 1.448	Acidity.....	≤0.0005 meq/g	at 250 nm .....	≥50 %	Methylene chlorure.....	≤ 50 ppm

Code	Size	Packaging	Notes
412652	1 l	Glass bottle	
412653	2.5 l	Glass bottle	

## Chloroform > RS - For preparative HPLC - Stabilized with ethanol

**RS**

Description .....	Clear colourless liquid	Boiling point.....	61.0 ÷ 61.5 ° C	Assay (GLC) .....	≥99.0 %	Stabilized with ethyl alcohol ...	0.6 ÷ 1.0 %
Identification .....	Positive	Water (K.F.).....	≤500 ppm	<b>U.V. Transmittance</b>			
Density at 20° C .....	1.479 ÷ 1.483	Residue on evaporation .....	≤5 ppm	at 250 nm .....	≥50 %		
Refractive index at 20°C.....	1.4456 ÷ 1.4496	Alcalinity.....	≤0.0002 meq/g	at 275 nm .....	≥98 %		

Code	Size	Packaging	Notes
438641	2.5 l	Glass bottle	

## Chloroform > RS - ATRASOL - For analysis of volatile traces - Stabilized with ethanol

**RS**

Refractive index at 20°C.....	1.444 - 1.448	Dichloromethane.....	≤ 100 mg/Kg	Assay (GC) (without stabilizer) ...	≥ 99.95 %	<b>Retention time trichlorobenzene to mirex</b>	
Water content (K.F.).....	≤ 100 mg/Kg	Non volatile residue.....	≤ 3 mg/Kg	Free acid (as HCl) .....	≤ 5 mg/Kg	GC-FID. Individ. peak (hexadecane) ..	≤ 5 µg/l
Colour .....	≤ 10 Hazen	GC ( FID ) - NC Atrasol .....	Conform	GC-ECD. Individual peak (Lindane) ..	≤ 2 ng/l	<b>Retention time range over toluène</b>	
Stabilizer (Ethanol).....	0.4 - 1 % m/m	Carbon tetrachloride.....	≤ 100 mg/Kg				

Code	Size	Packaging	Notes
P02432E16	1 l	Glass bottle	
P02432E21	2.5 l	Glass bottle	

## Chloroform > RS - PESTIPUR - For pesticide analysis - Stabilized with amylene

**RS**

Refractive index at 20°C.....	1.444 - 1.448	Stabilizer (Amylene).....	10 - 50 mg/Kg	Assay (GC).....	≥ 99.9 %	<b>Retention time trichlorobenzene to mirex</b>	
Water content (K.F.).....	≤ 100 mg/Kg	Free acid (as HCl) .....	≤ 5 mg/Kg	GC-ECD. Individual peak (Lindane) ..	≤ 3 ng/l	GC-NPD. Individual peak (Ethylparathion) ..	≤ 3 ng/l
Colour .....	≤ 10 Hazen	Non volatile residue.....	≤ 5 mg/Kg			<b>Retention time Atrazin to Coumaphos</b>	

Code	Size	Packaging	Notes
438681	1 l	Glass bottle	
438682	2.5 l	Glass bottle	

## Chloroform > RS - PESTIPUR - For pesticide analysis - Stabilized with ethanol

**RS**

Description .....	Clear liquid	Water .....	≤ 0.01 %	GC-ECD (Lindano) .....	≤ 3 ng/l
Colour .....	≤ 10 hazen	Acidity (HCl) .....	≤ 5 ppm	GC-NPD (Ethylparation) .....	≤ 3 ng/l
Identification .....	Positive	Not volatile residue.....	≤ 5 ppm	Assay (GLC) .....	≥ 99.9 %

Code	Size	Packaging	Notes
438651	1 l	Glass bottle	
438652	2.5 l	Glass bottle	

## Chloroform > RS - SPECTROSOL - For optical spectroscopy - Stabilized with amylene

**RS**

Clear, colourless liq. appearance .....	Conform	Water content (K.F.).....	≤ 100 mg/Kg	Carbon tetrachloride.....	≤ 100 mg/Kg	UV transmittance at 280 nm .....	≥ 95 %
Identification .....	Conform	Free acid (as HCl) .....	≤ 5 mg/Kg	Dichloromethane.....	≤ 100 mg/Kg	Assay (GC) .....	≥ 99.9 %
Colour .....	≤ 10 Apha	Non volatile residue.....	≤ 5 mg/Kg	UV transmittance at 250 nm .....	≥ 50 %		
Refractive index at 20°C.....	1.444 - 1.448	Stabilizer (Amylene).....	10 - 50 mg/Kg	UV transmittance at 260 nm .....	≥ 85 %		

Code	Size	Packaging	Notes
438591	1 l	Glass bottle	
438592	2.5 l	Glass bottle	



## Chloroform > RS - SPECTROSOL - For optical spectroscopy - Stabilized with ethanol

**RS**

Description .....	Clear liquid	Water (K.F) .....	≤100 ppm	<b>Fluorescence</b>	at 260 nm .....	≥90 %	
Colour (APHA) .....	≤10	Residue on evaporation .....	≤5 ppm	at 254 nm .....	≤2 ppb	at 275 nm .....	≥98 %
Identification .....	Positive	Acidity (HCl) .....	≤0.0005 meq/g	at 365 nm .....	≤2 ppb	Stabilized with ethyl alcohol .....	0.6 ÷ 1.0 %
Density at 20° C .....	1.479 ÷ 1.483	Alcalinity .....	≤0.0002 meq/g	<b>U.V. Transmittance</b>	at 245 nm .....	≥15 %	
Refractive index at 20°C. 1.4461 ÷ 1.4491		Assay (GLC) .....	≥99.9 %	at 250 nm .....	≥50 %	Carbon tetrachloride .....	≤ 100 ppm
Boiling point .....	61.0 ÷ 61.5 ° C						

Code	Size	Packaging	Notes
438664	1 l	Glass bottle	
438662	2.5 l	Glass bottle	

## Chloroform > RS - Anhydrous - For analysis - Stabilized with amylene

**RS**

Refractive index at 20°C.....	1.444 - 1.448	Colour .....	≤ 10 Hazen	Stabilizer (Amylene) .....	10 - 50 mg/Kg	1,2-dichloroethane.....	≤ 10 mg/Kg
Water content (K.F).....	≤ 50 mg/Kg	Free acid (as HCl) .....	≤ 5 mg/Kg	Carbon tetrachloride .....	≤ 80 mg/Kg		
Non volatile residue.....	≤ 10 mg/Kg	Assay (GC) .....	≥ 99.95 %	Dichloromethane.....	≤ 50 mg/Kg		

Code	Size	Packaging	Notes
P02410A10	200 ml	Bottle with septum	
P02410A16	1 l	Glass bottle	
P02410A21	2.5 l	Glass bottle	
P02410AT21	2.5 l	Glass bottle	On molecular sieves

## Chloroform > RS - Anhydrous - For analysis - Stabilized with ethanol

**RS**

Refractive index at 20°C.....	1.444 - 1.448	Colour .....	≤ 10 Hazen	Free acid (as HCl) .....	≤ 5 mg/Kg	1,2-dichloroethane.....	≤ 10 mg/Kg
Water content (K.F).....	≤ 50 mg/Kg	Assay (GC) (without stabilizer) .....	≥ 99.95 %	Carbon tetrachloride.....	≤ 80 mg/Kg		
Non volatile residue.....	≤ 10 mg/Kg	Stabilizer (Ethanol).....	0.6 - 1 % m/m	Dichloromethane.....	≤ 100 mg/Kg		

Code	Size	Packaging	Notes
P02410E10	200 ml	Bottle with septum	
P02410E16	1 l	Glass bottle	
P02410E21	2.5 l	Glass bottle	

## Chloroform > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized ethanol

**RPE**

Description .....	Clear liquid	Acidità e cloruri .....	Conform ACS	Residue on evaporation .....	≤5 ppm	Cu.....	≤0.01 ppm
Colour (APHA) .....	≤10	Suit.for Dithizone col.....	Conform ACS	Acidity (HCl) .....	≤5 ppm	Fe.....	≤0.1 ppm
Identification (I.R.).....	Conform	Density at 20° C .....	1.477 ÷ 1.481	Ethyl alcohol .....	0.6 ÷ 1 %	Pb.....	≤0.01 ppm
Phosgene .....	Conform	Refractive index at 20°C. 1.4461 ÷ 1.4491		Chloride.....	≤0.4 ppm	Zn.....	≤0.05 ppm
Ready carbonizable substances.....	Conform	Boiling point.....	60.5 ÷ 61.5 ° C	Free chlorine.....	≤0.1 ppm	Assay (GLC) .....	≥99.9 %
Acetone and aldehydes .....	Conform ACS	Water (K.F) .....	≤100 ppm	Carbonyl Compounds (CO) .....	≤5 ppm		

Code	Size	Packaging	Notes
438613	1 l	Glass bottle	
438614	2.5 l	Glass bottle	
438612	5 l	Plastic tank	

## Chloroform > RPE - For analysis - ISO - Stabilized with ethanol

**RPE**

Description .....	Clear liquid	Alcohol miscibility.....	Complete	Water (K.F) .....	≤300 ppm	Cu.....	≤0.01 ppm
Colour (APHA) .....	≤10	Benzene miscibility.....	Complete	Residue on evaporation .....	≤5 ppm	Fe.....	≤0.1 ppm
Identification (I.R.).....	Conform	Diethyl ether miscib.....	Complete	Acidity (HCl) .....	≤5 ppm	Pb.....	≤0.01 ppm
Free chlorine.....	Conform	Density at 20° C .....	1.479 ÷ 1.483	Ethyl alcohol .....	0.6 ÷ 1 %	Zn.....	≤0.05 ppm
Phosgene .....	Conform	Refractive index at 20°C. 1.4461 ÷ 1.4491		Chloride.....	≤0.4 ppm	Assay (GLC) .....	≥99 %
Ready carbonizable substances.....	Conform	Boiling point.....	61.0 ÷ 61.5 ° C	Carbonyl Compounds (CO) .....	≤5 ppm		

Code	Size	Packaging	Notes
438601	1 l	Glass bottle	
438603	2.5 l	Glass bottle	
438607	35 kg	Aluminium can	
438606	250 kg	Metal drum	

## Chloroform > RPE - For analysis - Stabilized with amylene

**RPE**

Clear, colourless liq. appearance ..... Conform	Refractive index at 20°C ..... 1.444 - 1.448	Non volatile residue ..... ≤ 10 mg/Kg	Dichloromethane ..... ≤ 50 mg/Kg
Identification ..... Conform	Water content (K.F.) ..... ≤ 100 mg/Kg	Stabilizer (Amylene) ..... 10 - 50 mg/Kg	1,2-dichloroethane ..... ≤ 10 mg/Kg
Colour ..... ≤ 10 Apha	Free acid (as HCl) ..... ≤ 5 mg/Kg	Carbon tetrachloride ..... ≤ 80 mg/Kg	Assay (GC) ..... ≥ 99.95 %

Code	Size	Packaging	Notes
438581	1 l	Glass bottle	
438582	2.5 l	Glass bottle	

## Chloroform > ERBApharm - According to pharmacopoeia : BP - Stabilized with ethanol

**ERBApharm**

Description ..... Clear colourless liquid	Chloride ..... Conform BP	<b>Related substances (CPG)</b>	Total impurities ..... ≤ 1.0 %v/v
Identification ..... Positive	Aldehyde ..... Conform BP	Bromochloromethane ..... ≤ 0.5 %v/v	Ethanol ..... 1.0 ÷ 2.0 % (v/v)
Acidity or alkalinity ..... Conform BP	Density at 20° C ..... 1.474 ÷ 1.479	Methylene chlorure ..... ≤ 0.2 %v/v	Origin (BSE/TSE) ..... Synthesis
Foreign chlorin. comp. .... Conform BP	Residue on evaporation ..... ≤ 40 ppm p/v	Carbon tetrachloride ..... ≤ 0.2 %v/v	
Free chlorine ..... Conform BP	Distillation range ..... Pass test	Any single impurity ..... ≤ 0.2 %v/v	

Code	Size	Packaging	Notes
334351	1 l	Glass bottle	
334353	2.5 l	Glass bottle	
334356	25 kg	Metal drum	
334355	40 kg	Metal drum	
529301	200 l	Metal drum	
334354	250 kg	Metal drum	

## Chloroform > RE - Pure - Stabilized with amylene

**RE**

Description ..... Clear colourless liquid	Density at 20°C ..... 1.478 ÷ 1.488	Acidity (HCl) ..... <10 ppm	Assay (GLC) ..... ≥ 99.9 %
Color ..... <10 APHA	Refractive index at 20°C. 1.4461 ÷ 1.4491	Residue on evaporation ..... ≤ 20 ppm	Amylene ..... ≤ 60 ppm
Identity (IR) ..... Positive	Boiling point ..... 61 ÷ 61.5 °C	Water (K.F.) ..... ≤ 300 ppm	

Code	Size	Packaging	Notes
528326	1 l	Glass bottle	
528328	2.5 l	Glass bottle	
528325	5 l	Plastic tank	
528329	25 l	Metal drum	
528327	200 l	Metal drum	

## Chloroform > RE - Pure - Stabilized with ethanol

**RE**

Description ..... Clear colourless liquid	Density at 20°C ..... 1.478 ÷ 1.488	Acidity (HCl) ..... ≤ 50 ppm	Water (K.F.) ..... ≤ 300 ppm
Color ..... ≤ 10 APHA	Refractive index at 20°C. 1.4461 ÷ 1.4491	Ethyl alcohol ..... 0,6 ÷ 1 %	Assay (GLC) ..... ≥ 99.9 %
Identity (IR) ..... Positive	Boiling point ..... 61,0 ÷ 61,5 °C	Residue on evaporation ..... ≤ 20 ppm	<b>Stab with 0,8 % ethanol</b>

Code	Size	Packaging	Notes
508320	1 l	Glass bottle	
508321	5 l	Plastic tank	
508322	200 l	Metal drum	



## Chloroform-d

Cloroformio-d • Chloroforme-d • Cloroformo-d

 Synonym:  
Deuteriochloroform

CDCl<sub>3</sub>  
Molecular Weight: 120,37  
CAS: 865-49-6  
EEC-N: 200-663-8

**Classification transport**  
ONU: 1888  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H302-H331-H315-H319-H351-H361d-H372  
P264-P271-P280-P304+P340-P305+P351+P338-  
P308+P313

## Chloroform-d > RS - For NMR - min 99.8%

**RS**

Code	Size	Packaging	Notes
P5119	10 x 0.75 ml	Glass ampoule	
P5115	25 ml	Glass bottle	
P5116	100 ml	Glass bottle	
P5117	500 ml	Glass bottle	
P5118	1 l	Glass bottle	

## Chloroform-d > RS - For NMR - min 99.8% - Stabilized with 0.12% Ag

RS

Code	Size	Packaging	Notes
P5325	100 ml	Glass bottle	

## Chloroform-d > RS - For NMR - min 99.95%

RS

Code	Size	Packaging	Notes
P5130	10 x 0.6 ml	Glass ampoule	
P5139	10 x 0.75 ml	Glass ampoule	
P5135	25 ml	Glass bottle	

## Chloroform-d > RS - For NMR - min 99.95% - Stabilized with 0.12% Ag

RS

Code	Size	Packaging	Notes
P5505	100 ml	Glass bottle	



## Chloroform-d + 0,03% TMS

Chloroformio-d + 0,03% TMS • Chloroforme-d + 0,03% TMS • Cloroformo-d + 0,03% TMS

Synonym:  
Deuteriochloroform

CDCl<sub>3</sub>  
Molecular Weight: 120,37  
CAS: 865-49-6  
EEC-N: 200-663-8

**Classification transport**  
ONU: 1888  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H302-H331-H315-H319-H351-H361d-H372  
P264-P271-P280-P304+P340-P305+P351+P338-P308+P313

## Chloroform-d + 0,03% TMS > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5006	100 ml	Glass bottle	



## alpha-Chloronaphthalene

alfa-Cloronaftalene • alpha-Chloronaphthalène • alpha-Cloronaftaleno

C<sub>10</sub>H<sub>7</sub>Cl  
Molecular Weight: 162,61  
CAS: 90-13-1  
EEC-N: 201-967-3

**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III



**Warning**  
H302-H315-H319-H335-H400  
P264-P273-P271-P304+P340-P305+P351+P338-P330

## alpha-Chloronaphthalene > RPE - For analysis

RPE

Description ..... Yellow clear liquid    Density at 20° C ..... 1.189 ÷ 1.199    Assay (GLC) ..... ≥ 85 %  
Identification ..... Positive    Refractive index at 20°C ..... 1.6302 ÷ 1.6362

Code	Size	Packaging	Notes
438755	500 ml	Glass bottle	



## 2-Chlorophenol

2-Clorofenolo • 2-Chlorophénol • 2-Clorofenol

Synonym:  
o-Chlorophenol

ClC<sub>6</sub>H<sub>4</sub>OH  
Molecular Weight: 128,56  
CAS: 95-57-8  
EEC-N: 202-433-2

**Classification transport**  
ONU: 2021  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H302-H312-H332-H411  
P264-P273-P271-P261-P304+P340-P330

## 2-Chlorophenol > RE - Pure

RE

Description ..... Clear colourless liquid    Refractive index at 20°C ..... 1.5540 ÷ 1.5600    Water (K.F) ..... ≤0.1 %  
Identification ..... Positive    Boiling point ..... 175.0 ÷ 176.0 ° C    Residue on ignition ..... ≤100 ppm  
Density at 20° C ..... 1.259 ÷ 1.265    Melting point ..... 8.2 ÷ 9.2 ° C    Assay (GLC) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
438451	1 l	Glass bottle	



## 4-Chlorophenol

4-Clorofenolo • p-Chlorophénol • p-Clorofenol

$C_6H_4OH$

Molecular Weight: 128,56

CAS: 106-48-9

EEC-N: 203-402-6

### Classification transport

ONU: 2020

Transport Hazard class: 6.1

Packing group III



### Warning

H302-H312-H332-H411

P264-P273-P271-P261-P304+P340-P330

### 4-Chlorophenol > RPE - For analysis - Reag. Ph.Eur.

**RPE**

Description ..... Yellowish crystals Identification ..... Positive Water ..... ≤ 0,3 % Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
438504	100 g	Glass bottle	

## Chloroplatinic acid hexahydrate ► Hexachloroplatinic acid hexahydrate



## m-Chlorotoluene

m-Clorotoluene • m-Chlorotoluène • m-Cloro tolueno

Synonym:

3-Chlorotoluene

$C_6H_4CH_3$

Molecular Weight: 126,59

CAS: 108-41-8

EEC-N: 203-580-5

### Classification transport

ONU: 2238

Transport Hazard class: 3

Packing group III



### Warning

H226-H332-H411

P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

### m-Chlorotoluene > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Density at 20° C ..... 1.067 ÷ 1.077 Boiling point ..... 161.5 ÷ 162.5 ° C Acidity (HCl) ..... ≤100 ppm  
 Identification ..... Positive Refractive index at 20°C. 1.5194 ÷ 1.5234 Residue on evaporation ..... ≤100 ppm Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
439001	25 ml	Glass bottle	

## n-Chloro-p-toluenesulfonamide sodium salt ► Chloramine T sodium salt



## Chromate standard solution

Cromati standard soluzione • Chromate standard solution • Cromato, solución patrón



### Danger

H340-H350-H412-HEU203-HEU208-HA26

P273-P280-P201-P202-P308+P313-P405

### Chromate standard solution > RS - Standard solution for ion chromatography

**RS**

Code	Size	Packaging	Notes
503241	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503243	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Chromazurol S

Cromazurol S • Chromazurol S • Cromazurol S

Synonym:

Mordant Blue 29

$C_{23}H_{13}Cl_2Na_3O_9S$

Molecular Weight: 605,29

CAS: 1667-99-8

EEC-N: 216-787-0



### Warning

H302-H312-H332-H315-H319-H335

P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

### Chromazurol S > RPE - For analysis - C.I. 43825

**RPE**

Description ..... Dark brown powder Identification ..... Positive

Code	Size	Packaging	Notes
440591	1 g	Glass bottle	

**Complexometric indicator. For the determination of Be and Al**

## Chromic anhydride ► Chromium (VI) oxide



## Chromium standard solution

Cromo standard soluzione • Chrome standard solution • Cromo, solución patrón

## Classification transport

ONU: 3264  
 Transport Hazard class: 8  
 Packing group II



## Danger

H314  
 P264-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

## Chromium standard solution &gt; RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001002	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001002
615001000	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5001000

## Chromium standard solution &gt; RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505567	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505568	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505569	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Chromium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503521	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503525	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503523	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503527	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Chromium standard solution &gt; RS - Standard solution for AAS

RS

Description ..... Green-grey clear liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497505	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504195	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507485	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497501	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Chromium standard solution &gt; RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Orange clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
440641		Plastic vial	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Chromium (III) chloride hexahydrate

Cromo cloruro ico esaidrato • Chrome (III) chlorure hexahydrate • Cromo (III) cloruro hexahidrato

Synonym:  
Chromium trichloride hexahydrate  
Hexaaquachromium (III) chloride

$\text{CrCl}_3 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 266,45  
CAS: 10060-12-5  
EEC-N: 233-038-3



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Chromium (III) chloride hexahydrate > RPE - For analysis

**RPE**

Description ..... Polvere cristallina verde scuro Non precipit. con  $\text{NH}_4\text{OH}$  (S04) .....  $\leq 0.2\%$  Fe .....  $\leq 100$  ppm  
Identification ..... Positive Ammonium .....  $\leq 100$  ppm Pb .....  $\leq 50$  ppm  
pH solution 5% .....  $2.0 \div 3.5$  Sulphate .....  $\leq 200$  ppm Assay (oxidimetric) .....  $\geq 95.0\%$

Code	Size	Packaging	Notes
440724	100 g	Glass bottle	
440727	1 kg	Plastic bottle	

### Chromium (III) chloride hexahydrate > RE - Pure

**RE**

Description ..... Cristall i verdi Subst. not ppt  $\text{NH}_4\text{OH}$  .....  $\leq 0.2\%$  Fe .....  $\leq 100$  ppm Assay (oxidimetric) .....  $\geq 95\%$   
Identification ..... Positive Sulphate .....  $\leq 100$  ppm Pb .....  $\leq 50$  ppm

Code	Size	Packaging	Notes
440742	5 kg	Plastic jar	



## Chromium (III) nitrate nonahydrate

Cromo nitrato ico nonaidrato • Chrome (III) nitrate nonahydrate • Cromo (III) nitrato nonahidrato

$\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$   
Molecular Weight: 400,15  
CAS: 7789-02-8

**Classification transport**  
ONU: 2720  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H317-H350i-H410-HA26  
P273-P280-P261-P308+P313-P333+P313-P302+P352a

### Chromium (III) nitrate nonahydrate > RPE - For analysis

**RPE**

Description ..... Violet crystals Subst. not ppt  $\text{NH}_4\text{OH}$  .....  $\leq 0.2\%$  Cu .....  $\leq 10$  ppm Ni .....  $\leq 50$  ppm  
Identification ..... Positive Sulphate .....  $\leq 50$  ppm Fe .....  $\leq 200$  ppm Pb .....  $\leq 20$  ppm  
pH sol. 5% at  $25^\circ\text{C}$  .....  $2.0 \div 3.0$  Ca .....  $\leq 50$  ppm Mg .....  $\leq 50$  ppm Zn .....  $\leq 10$  ppm  
Ammonium .....  $\leq 10$  ppm Cd .....  $\leq 10$  ppm Mn .....  $\leq 10$  ppm Assay (oxidimetric) .....  $\geq 12.5\%$  Cr  
Chloride .....  $\leq 20$  ppm Co .....  $\leq 10$  ppm Na .....  $\leq 50$  ppm

Code	Size	Packaging	Notes
440775	250 g	Glass bottle	
440776	1 kg	Glass bottle	



## Chromium (III) oxide

Cromo sesquiossido • Chrome (III) oxyde • Cromo (III) óxido

Synonym:  
Chromia

$\text{Cr}_2\text{O}_3$   
Molecular Weight: 151,99  
CAS: 1308-38-9  
EEC-N: 215-160-9

### Chromium (III) oxide > RPE - For analysis

**RPE**

Description ..... Green powder Identification ..... Positive Water solubility .....  $\leq 0.2\%$  Assay (oxidimetric) .....  $\geq 99\%$

Code	Size	Packaging	Notes
440825	250 g	Plastic bottle	
440827	1 kg	Plastic bottle	
440823	25 kg	Plastic bucket	



## Chromium (VI) oxide

Anidride cromica • Anhydride chromique • Anhídrido crómico

CrO<sub>3</sub>  
Molecular Weight: 99.99  
CAS: 1333-82-0  
EEC-N: 215-607-8

**Classification transport**  
ONU: 1463  
Transport Hazard class: 5.1  
Packing group II



### Danger

H271-H301-H311-H330-H314-H334-H317-H340-  
H350-H361f-H372-H410-HA26  
P221-P264-P273-P283-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P342+P311a

### Chromium (VI) oxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Purple crystals    Chloride ..... ≤50 ppm    Fe,Al,Ba ..... ≤300 ppm  
Identification ..... Positive    Nitrate ..... ≤500 ppm    Na ..... ≤0.2 %  
Water-insoluble matter ..... ≤100 ppm    Sulphate ..... ≤50 ppm    Assay (oxidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
421735	250 g	Plastic bottle	
421737	1 kg	Plastic bottle	



## Chromium (VI) oxide solution

Anidride cromica soluzione • Anhydride chromique solution • Anhídrido crómico solución

Synonym:  
Chromic anhydride

CrO<sub>3</sub>  
Molecular Weight: 99.99  
CAS: 1333-82-0

**Classification transport**  
ONU: 1755  
Transport Hazard class: 8  
Packing group II



### Danger

H271-H301-H312-H330-H314-H318-H334-H317-  
H340-H350-H361f-H335-H372-H400-H410-HA26  
P210-P221-P264-P273-P283-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P342+P311a

### Chromium (VI) oxide solution > RE - Pure

RE

Description ..... Orange clear liquid    Chloride ..... ≤500 ppm    Assay (oxidimetric) ..... 294.6 ÷ 300.6 g/l  
Identification ..... Positive    Sulphate ..... ≤0.1 %

Code	Size	Packaging	Notes
317511	2.5 l	Glass bottle	



## Chromium (III) potassium sulfate dodecahydrate

Cromo (III) di potassio solfato dodecaidrato • Chrome (III) potassium sulfate dodécahydraté • Cromo (III) de potasio solfato dodecahidrato

Synonym:  
Chrome alum  
Potassium chromium (III)sulfate dodecahydrate

CrK(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O  
Molecular Weight: 499.39  
CAS: 7788-99-0



### Warning

H315-H319  
P264-P280g-P280i-P305+P351+P338-P332+P313-  
P337+P313

### Chromium (III) potassium sulfate dodecahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Purple crystals    Ammonium ..... ≤100 ppm    Al ..... ≤200 ppm  
Identification ..... Positive    Chloride ..... ≤20 ppm    Fe ..... ≤100 ppm  
Water-insoluble matter ..... ≤100 ppm    Heavy metals (Pb) ..... ≤100 ppm    Assay (oxidimetric) ..... 98.0 ÷ 102.0 %


Code	Size	Packaging	Notes
440876	100 g	Plastic bottle	
440877	1 kg	Plastic bottle	

### Chromium (III) potassium sulfate dodecahydrate > RE - Pure

RE

Description ..... Dark violet crystals    Water-insoluble matter ..... ≤ 0.01 %    Ammonium ..... ≤ 100 ppm    Fe ..... ≤ 100 ppm  
Identification ..... Positive    Chloride ..... ≤ 20 ppm    Al ..... ≤ 200 ppm    Assay (iodometric) ..... ≥ 99 %


Code	Size	Packaging	Notes
336457	1 kg	Plastic bottle	
336458	5 kg	Plastic jar	

	<b>Chromium (III) sulfate</b> Cromo solfato ico • Chrome (III) sulfate • Cromo (III) sulfato		Synonym: Chromium(III) sulfate hydrate Chromium trisulfate	
	Cr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·nH <sub>2</sub> O Molecular Weight: 392,18 CAS: 15244-38-9	<b>Classification transport</b> ONU: 3260 Transport Hazard class: 8 Packing group II	 	<b>Danger</b> H302-H312-H332-H314 P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Chromium (III) sulfate > RPE - For analysis** **RPE**

Description ..... Dark green crystals      pH sol. 5% at 25° C ..... 1.00 ÷ 2.50      Chloride ..... ≤ 500 ppm      Assay (iodometric) ..... ≥ 75 Cr<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>  
 Identification ..... Positive      Ammonium ..... ≤ 100 ppm      Fe ..... ≤ 0.1 %

Code	Size	Packaging	Notes
440955	250 g	Plastic bottle	
440957	1 kg	Plastic bottle	

	<b>Chromotropic acid disodium salt</b> Acido cromotropico sale bisodico • Acide chromotropique sel disodique • Acido cromotrópico sal disódica		Synonym: 4,5-Dihydroxynaphtalene-2,7-disulfonic acid disodium salt 1,8-Dihydroxynaphtalene-3,6-disulfonic acid disodium salt	
	1,8-(OH) <sub>2</sub> C <sub>10</sub> H <sub>4</sub> -3,6-(SO <sub>3</sub> Na) <sub>2</sub> ·2H <sub>2</sub> O Molecular Weight: 400,29 CAS: 5808-22-0 EEC-N: 204-972-9			

**Chromotropic acid disodium salt > RPE - For analysis** **RPE**

Description ..... Whitish powder      Water-insoluble matter ..... ≤ 0.02 %      Formaldehyde sensit ..... Conform  
 Identification ..... Positive      Nitrate sensitivity ..... Conform      Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
404872	25 g	Glass bottle	

	<b>Cinchonine</b> Cinconina • Cinchonine • Cinconina			
	C <sub>19</sub> H <sub>22</sub> N <sub>2</sub> O Molecular Weight: 294,4 CAS: 118-10-5 EEC-N: 204-234-6			<b>Warning</b> H302-H332 P264-P271-P261-P304+P340-P330-P301+P312a

**Cinchonine > RPE - For analysis** **RPE**

Description ..... White powder      Specific optical rotation (c=5 in Ethano ..... Dil. H<sub>2</sub>SO<sub>4</sub>-ins. matter ..... ≤ 200 ppm      Fe ..... ≤ 10 ppm  
 Identification ..... Positive      +225 ÷ +230 °      Heavy metals (Pb) ..... ≤ 10 ppm      Assay (non-aqueous medium) ..... ≥ 99 %  
 Ready carbonizable substances ..... Conform      Loss on drying ..... ≤ 1 %      Residue on ignition ..... ≤ 0.1 %  
 Melting point ..... 260 ÷ 265 °C      Total chlorine ..... ≤ 300 ppm      Total sulphur ..... ≤ 50 ppm

Code	Size	Packaging	Notes
437251	10 g	Glass bottle	

	<b>Citral</b> Citrale • Citral • Citral		Synonym: 3,7-Dimethyl-2,6-octadienal	
	C <sub>10</sub> H <sub>16</sub> O Molecular Weight: 152,24 CAS: 5392-40-5 EEC-N: 226-394-6			<b>Warning</b> H315-H317 P264-P261-P280g-P272-P333+P313-P302+P352a

**Citral > RE - Pure** **RE**

Description ..... Yellow liquid      Density at 20° C ..... 0.886 ÷ 0.890      Residue on ignition ..... ≤ 500 ppm  
 Identification ..... Positive      Refractive index at 20°C ..... 1.4870 ÷ 1.4910      Assay (GLC) ..... ≥ 97 %

Code	Size	Packaging	Notes
437401	25 ml	Glass bottle	



**Citric acid anhydrous**

Acido citrico anidro • Acide citrique anhydre • Acido citrico anhidro



Molecular Weight: 192,13

CAS: 77-92-9

EEC-N: 201-069-1

**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

**Citric acid anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB-JP****ERBApharm**

Description .....	White crystalline powder	USP-NF	Sulphated ash.....	≤ 0.1 %	Origin (BSE/TSE).....	Vegetable	
Identification .....	Positive	Organic volatile impurities	Conform USP-NF	Sulphate.....	≤ 150 ppm	Residual solvents (Current ICH).....	Conform
Appearance of solution .....	Conform Ph.Eur.	Water (K.F.).....	≤ 1.0 %	Heavy metals (Pb).....	≤ 10 ppm		
Ready carbonizable substances.....	Conform	Oxalic acid.....	≤ 360 ppm	Assay (acidimetric).....	99.5 ÷ 100.5 % s.s.		

Code	Size	Packaging	Notes
302486	500 g	Plastic bottle	
302487	1 kg	Plastic bottle	
302485	5 kg	Plastic jar	
302488	25 kg	Plastic bucket	
302484	50 kg	Fibre drum	

**Citric acid monohydrate**

Acido citrico monoidrato • Acide citrique monohydraté • Acido citrico monohidratato



Molecular Weight: 210,14

CAS: 5949-29-1

EEC-N: 201-069-1

**Warning**

H319

P264-P280i-P305+P351+P338-P337+P313

**Citric acid monohydrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP****RPE**

Description .....	White crystals	Sulphate.....	≤20 ppm	Appearance of solution .....	Conform	Heavy metals (Pb).....	≤10 ppm
Identification .....	Positive	Fe.....	≤3 ppm	Organic volatile impurities.....	Conform	As.....	≤3 ppm
Water-insoluble matter .....	≤50 ppm	Pb.....	≤2 ppm	Water (K.F.).....	7.5 ÷ 8.8 %	Assay (acidimetric).....	99.5 ÷ 100.5 % s.s.
Chloride.....	≤10 ppm	Substances darkened by sulphuric acid.....	Conform	Oxalic acid.....	≤350 ppm		
Phosphate.....	≤10 ppm			Sulphated ash.....	≤200 ppm		

Code	Size	Packaging	Notes
403725	250 g	Plastic bottle	
403727	1 kg	Plastic bottle	
403721	5 kg	Plastic jar	
403724	25 kg	Plastic bucket	
403722	50 kg	Fibre drum	

**Citric acid monohydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB****ERBApharm**

Description .....	White crystals	Ready carbonizable substances.....	Conform	Oxalic acid.....	≤ 360 ppm	Heavy metals (Pb).....	≤ 10 ppm
Identification .....	Positive	USP-NF		Sulphated ash.....	≤ 0.1 %	Assay (acidimetric).....	99.5 ÷ 100.5 % s.s.
Appearance of solution .....	Conform Ph.Eur.	Water (K.F.).....	7.5 ÷ 9.0 %	Sulphate.....	≤ 150 ppm		

Code	Size	Packaging	Notes
302557	1 kg	Plastic bottle	
302559	5 kg	Plastic jar	
302551	25 kg	Plastic bucket	
302554	50 kg	Fibre drum	

## Citric acid monohydrate > ERBApharm - Powder-According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB

ERBApharm

Description .....	White crystalline powder	Ready carbonizable substances.....	Conform	Sulphated ash.....	≤ 0.1 %	Assay (acidimetric) .....	99.5 ÷ 100.5 % s.s.
Identification .....	Positive	USP-NF		Sulphate .....	≤ 150 ppm	Origin (BSE/TSE).....	Vegetable
Appearance of solution.....	Conform Ph.Eur.	Water (K.F.) .....	7.5 ÷ 9.0 %	Heavy metals (Pb).....	≤ 10 ppm	Residual solvents (Current ICH).....	Conform
		Oxalic acid.....	≤ 360 ppm				

Code	Size	Packaging	Notes
302507	1 kg	Plastic bottle	
302509	5 kg	Plastic jar	
302501	25 kg	Plastic bucket	
302504	50 kg	Fibre drum	



## Clayton's yellow

Giallo Clayton • Jaune Clayton • Amarillo Clayton

Synonym:  
Thiazole Yellow G  
Direct Yellow 9

$C_{28}H_{19}N_5O_6S_4Na_2$   
Molecular Weight: 695,73  
CAS: 1829-00-1  
EEC-N: 217-377-4

## Clayton's yellow > RPE - For analysis - C.I. 19540

RPE

Description .....	Yellow brown powder	pH range .....	1.2 - 13.2	Mg sensitivity .....	≤ 0.5 µg/ml
Identification .....	Positive	Loss on drying .....	≤ 10 %	Residue on ignition.....	18.4 ÷ 22.4 %

Code	Size	Packaging	Notes
453518	5 g	Glass bottle	
453519	25 g	Glass bottle	

*Dye for microscopy. Indicator acid - base (pH 12.0 ÷ 13.0). Fluorescence indicator. For the determination of magnesium*



## Cobalt standard solution

Cobalto standard soluzione • Cobalt standard solution • Cobalto, solución patrón

Classification transport  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



Danger  
H314-H350-H412-HEU208-HA26  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Cobalt standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615004300	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5004300

## Cobalt standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505562	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505565	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505563	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

## Cobalt standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503511	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503515	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503513	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503517	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

**Cobalt standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507533	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497495	100 ml	Bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507484	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497491	500 ml	Bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Cobalt standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
439131		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Cobalt (II) acetate tetrahydrate**

Cobalto acetato oso tetraidrato • Cobalt II acetate tetrahydrate • Cobalto (II) acetato tetraidrato

Synonym:  
Cobaltous acetate tetrahydrate

$\text{Co}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$   
Molecular Weight: 249,08  
CAS: 6147-53-1  
EEC-N: 200-755-8

**Danger**

H302-H334-H317-H351  
P264-P280-P284-P304+P340-P342+P311a-  
P308+P313

**Cobalt (II) acetate tetrahydrate > RPE - For analysis**

RPE

Description ..... Red-violet powder Chloride ..... ≤50 ppm Fe ..... ≤10 ppm Assay (complexometric) ... 98.0 ÷ 100.0 %  
Identification ..... Positive Sulphate ..... ≤100 ppm Ni ..... ≤0.1 %  
pH sol. 5% at 25° C ..... 5.95 ÷ 7.45 Cu ..... ≤50 ppm Zn ..... ≤200 ppm

Code	Size	Packaging	Notes
439154	100 g	Glass bottle	
439155	250 g	Glass bottle	
439156	1 kg	Glass bottle	

**Cobalt (II) ammonium sulfate hexahydrate**

Cobalto ammonio solfato oso esaidrato • Cobalt II ammonium sulfate hexahydraté • Cobalto (II) y amonio solfato hexahidrato

Synonym:  
Ammonium cobalt(II) sulfate hexahydrate

$\text{Co}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 395,23  
CAS: 13596-46-8  
EEC-N: 237-043-1

**Warning**

H302-H332-H315-H319-H317-H335  
P264-P271-P280-P304+P340-  
P305+P351+P338-P330

**Cobalt (II) ammonium sulfate hexahydrate > RPE - For analysis**

RPE

Description ..... Red crystal. powder Water-insoluble matter ..... ≤100 ppm Fe ..... ≤30 ppm Assay (complexometric) ..... ≥98 %  
Identification ..... Positive Nitrate ..... ≤20 ppm Ni ..... ≤0.1 %  
pH sol. 5% at 25° C ..... 4.0 ÷ 7.0 Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S ..... ≤0.3 % Pb ..... ≤10 ppm  
Chloride ..... ≤20 ppm Cu ..... ≤10 ppm Zn ..... ≤50 ppm

Code	Size	Packaging	Notes
439204	100 g	Glass bottle	
439207	1 kg	Glass bottle	



## Cobalt (II) chloride hexahydrate

Cobalto cloruro oso esaidrato • Cobalt II chlorure hexahydrate • Cobalto (II) cloruro hexahidrato

Synonym:  
Cobaltous chloride hexahydrate

CoCl<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 237,93  
CAS: 7791-13-1  
EEC-N: 231-589-4

**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H302-H334-H317-H350i-H410-HA26  
P264-P273-P284-P304+P340-P342+P311a-P308+P313

### Cobalt (II) chloride hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Red-violet crystals	Sulphate .....	≤ 100 ppm	K .....	≤ 100 ppm	Zn .....	≤ 300 ppm
Identification .....	Positive	Ca .....	≤ 50 ppm	Mg .....	≤ 50 ppm	Assay (complexometric) .....	98.0 ÷ 102.0 %
Water-insoluble matter .....	≤ 100 ppm	Cu .....	≤ 20 ppm	Na .....	≤ 500 ppm		
Nitrate .....	≤ 100 ppm	Fe .....	≤ 50 ppm	Ni .....	≤ 0.1 %		

Code	Size	Packaging	Notes
439355	250 g	Plastic bottle	
439357	1 kg	Plastic bottle	
439353	25 kg	Sack	



## Cobalt (II) nitrate hexahydrate

Cobalto nitrato oso esaidrato • Cobalt II nitrate hexahydrate • Cobalto (II) nitrato hexahidrato

Synonym:  
Cobaltous nitrate hexahydrate

Co(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 291,04  
CAS: 10026-22-9  
EEC-N: 233-402-1

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H302-H312-H334-H317-H350i-HA26  
P221-P264-P210a-P280a-P304+P340-P342+P311a

### Cobalt (II) nitrate hexahydrate > RS - For enviromental analysis - ACS

**RS**

Description .....	Red crystals	Chloride .....	≤ 20 ppm	Fe .....	≤ 10 ppm	Ni .....	≤ 0.15 %
Identification .....	Positive	Sulphate .....	≤ 50 ppm	K .....	≤ 100 ppm	Pb .....	≤ 20 ppm
Water-insoluble matter .....	≤ 100 ppm	Ca .....	≤ 50 ppm	Mg .....	≤ 50 ppm	Zn .....	≤ 100 ppm
Ammonium .....	≤ 0.2 %	Cu .....	≤ 20 ppm	Na .....	≤ 500 ppm	Assay (complexometric) .....	98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
439504	100 g	Glass bottle	

### Cobalt (II) nitrate hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Red brick crystals	Sulphate .....	≤ 50 ppm	K .....	≤ 100 ppm	Pb .....	≤ 20 ppm
Identification .....	Positive	Ca .....	≤ 50 ppm	Mg .....	≤ 50 ppm	Zn .....	≤ 100 ppm
Water-insoluble matter .....	≤ 100 ppm	Cu .....	≤ 20 ppm	Na .....	≤ 500 ppm	Assay (complexometric) .....	98.0 ÷ 102.0 %
Chloride .....	≤ 20 ppm	Fe .....	≤ 10 ppm	Ni .....	≤ 0.15 %		

Code	Size	Packaging	Notes
439455	250 g	Plastic bottle	
439457	1 kg	Plastic bottle	



## Cobalt (II) sulfate heptahydrate

Cobalto solfato oso eptaidrato • Cobalt II sulfate heptahydrate • Cobalto (II) sulfato heptahidrato

Synonym:  
Cobaltous sulfate heptahydrate

CoSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight: 281.10  
CAS: 10026-24-1  
EEC-N: 233-334-2

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Danger**  
H302-H334-H317-H350-H410-HA26  
P264-P273-P284-P304+P340-P342+P311a-P308+P313

### Cobalt (II) sulfate heptahydrate > RPE - For analysis

**RPE**

Description .....	Red crystals	Chloride .....	≤ 20 ppm	Cu .....	≤ 10 ppm	Zn .....	≤ 20 ppm
Identification .....	Positive	Water-insoluble matter .....	≤ 30 ppm	Fe .....	≤ 10 ppm	Assay (complexometric) .....	≥ 99 %
pH sol. 5% at 25° C .....	3.5 ÷ 4.5	Nitrate .....	≤ 50 ppm	Ni .....	≤ 500 ppm		
Ammonium .....	≤ 100 ppm	Subst. not ppt. (NH <sub>4</sub> ) <sub>2</sub> S .....	≤ 0.1 %	Pb .....	≤ 10 ppm		

Code	Size	Packaging	Notes
439705	250 g	Plastic bottle	
439707	1 kg	Plastic bottle	



## Congo red

Rosso Congo • Rouge Congo • Rojo Congo

Synonym:  
Direct Red 28

$C_{32}H_{22}N_6Na_2O_6S_2$   
Molecular Weight: 696,66  
CAS: 573-58-0  
EEC-N: 209-358-4



### Danger

H350-H361d-HA26  
P280-P201-P202-P308+P313-P405-P501a

### Congo red > RPE - For analysis - C.I. 22120

RPE

Description .....Red brown powder Identification .....Positive Colour change..... blue red pH range ..... 3.0 - 5.2

Code	Size	Packaging	Notes
476762	25 g	Glass bottle	
476764	100 g	Plastic bottle	

**Dye for microscopy (histology). Indicator acid - base (pH 3.0 ÷ 5.2)**



## Congo red solution

Rosso Congo soluzione • Rouge Congo solution • Rojo Congo solución

Synonym:  
Direct Red 28

$C_{32}H_{22}N_6Na_2O_6S_2$   
Molecular Weight: 696,66  
CAS: 573-58-0

### Classification transport

Transport Hazard class: 3  
Packing group III



### Congo red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022001	100 ml	Plastic bottle	Ref Ph.Eur 1022001

**Change colour : pH 3.0 (blue) to pH 5.0 (pink)**



## Congo red paper

Cartina rosso Congo • Papier rouge Congo • Rojo Congo papel



### Danger

H350-HA26  
P280-P201-P202-P308+P313-P405-P501a

### Congo red paper > RS - For pHmetry

RS

Code	Size	Packaging	Notes
435220000	1 roll	Box	Congo red paper, Color change : red --> Blue, Change pH 5.0-->3.0



## Coomassie brilliant blue R 250

Blu Coomassie R250 • Bleu de Coomassie brillant R 250 • Azul Coomassie R 250

Synonym:  
Brilliant Blue R  
Acid Blue 83

$C_{45}H_{44}N_3NaO_7S_2$   
Molecular Weight: 825,99  
CAS: 6104-59-2  
EEC-N: 228-060-5



### Warning

H302-H312-H332  
P264-P271-P280-P261-P304+P340-P330

### Coomassie brilliant blue R 250 > RS - For microscopy - C.I. 42660

RS

Description ..... Dark violet powder Identification ..... Positive E (1%/1cm lambda max) ..... ≥ 300

Code	Size	Packaging	Notes
428642	25 g	Glass bottle	

**Dye for histochemistry**



## Copper standard solution

Rame standard soluzione • Cuivre standard solution • Cobre, solución patrón

Classification transport HEU210  
 ONU: 3264  
 Transport Hazard class: 8  
 Packing group III

### Copper standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001100	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001100

### Copper standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505577	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505578	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505579	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Copper standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503541	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503545	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503543	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503547	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Copper standard solution > RS - Standard solution for AAS

RS

Description ..... Clear blue liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497615	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504545	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507478	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497611	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Copper standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Green clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
475151		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

### Copper standard solution > RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504361	50 ml	Plastic bottle	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid

**Copper electrolytic rebaked, sheet**

Rame elettrolitico lastra ricotta • Cuivre électrolytique recuit, feuilles • Cobre electrolítico recocido, hojas

Cu	H413
Molecular Weight: 63,55	P273-P501a
CAS: 7440-50-8	
EEC-N: 231-159-6	

**Copper electrolytic rebaked, sheet > RPE - For analysis****RPE**

Description ..... Metallic sheet Identification ..... Positive Assay ..... ≥99.8 %

Code	Size	Packaging	Notes
475215	250 g	Box	

~ 0,15 mm thick

**Copper electrolytic, turnings**

Rame elettrolitico, tornitura • Cuivre électrolytique, tournures • Cobre electrolítico, virutas

Cu	H413
Molecular Weight: 63,55	P273-P501a
CAS: 7440-50-8	
EEC-N: 231-159-6	

**Copper electrolytic, turnings > RPE - For analysis****RPE**

Description ..... Trucioli metallici Identification ..... Positive Assay ..... ≥99 %

Code	Size	Packaging	Notes
475305	250 g	Carton box	
475307	1 kg	Plastic jar	

**Copper electrolytic, wire**

Rame elettrolitico, filo • Cuivre électrolytique, fils • Cobre electrolítico, hilos

Cu	H413
Molecular Weight: 63,55	P273-P501a
CAS: 7440-50-8	
EEC-N: 231-159-6	

**Copper electrolytic, wire > RPE - For analysis****RPE**Description ..... Filo Sn + Sb ..... ≤200 ppm Fe ..... ≤50 ppm Pb ..... ≤200 ppm  
Identification ..... Positive Ag ..... ≤100 ppm Mn ..... ≤10 ppm Assay ..... ≥99.9 %  
HNO<sub>3</sub>-insoluble matter ..... ≤300 ppm As ..... ≤5 ppm P ..... ≤10 ppm

Code	Size	Packaging	Notes
475185	250 g	Box	
475187	1 kg	Box	

~ 1 mm diameter

**Copper reduced, powder**

Rame ridotto, polvere • Cuivre réduit, poudre • Cobre reducido, polvo

Cu	H413
Molecular Weight: 63,55	P273-P501a
CAS: 7440-50-8	
EEC-N: 231-159-6	

**Copper reduced, powder > RPE - For analysis - Reag. Ph.Eur.****RPE**

Description ..... Red-brown metallic powder Identification ..... Positive Assay ..... ≥ 98.5 % (Cu)

Code	Size	Packaging	Notes
475334	100 g	Glass bottle	
475337	1 kg	Glass bottle	



## Copper (II) acetate hydrate

Rame acetato ico idrato • Cuivre (II) acétate hydrate • Cobre (II) acetato hidratado

Synonym:  
Cupric acetate monohydrate

$Cu(CH_3COO)_2 \cdot nH_2O$   
Molecular Weight: 199,65  
CAS: 6046-93-1  
EEC-N: 205-553-3



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Copper (II) acetate hydrate > RPE - For analysis - ACS

**RPE**

Description Green-azure crystalline powder Water-insoluble matter ..... ≤ 100 ppm K ..... ≤ 100 ppm Assay (oxidimetric) ..... 98.0 ÷ 102.0 %  
Identification ..... Positive Sulphate ..... ≤ 100 ppm Ni ..... ≤ 100 ppm  
Chloride ..... ≤ 30 ppm Ca ..... ≤ 50 ppm Na ..... ≤ 500 ppm

Code	Size	Packaging	Notes
475405	250 g	Plastic bottle	
475407	1 kg	Plastic bottle	

### Copper (II) acetate hydrate > RE - Pure

**RE**

Description .. Dark green crystalline powder Chloride ..... ≤ 200 ppm Sulphate ..... ≤ 0.1 % Assay (oxydimetric) ..... ≥ 98.0 %  
Identification ..... Positive pH (5%/m solution) ..... 5.0 - 6.0 Fe ..... ≤ 250 ppm

Code	Size	Packaging	Notes
364007	1 kg	Plastic bottle	
364008	25 kg	Plastic bucket	



## Copper (II) carbonate (basic)

Rame carbonato basico ico • Cuivre (II) carbonate basique • Cobre (II) carbonato básico

Synonym:  
Cupric carbonate basic

$CuCO_3 \cdot Cu(OH)_2$   
Molecular Weight: 221,12  
CAS: 12069-69-1  
EEC-N: 235-113-6



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Copper (II) carbonate (basic) > RPE - For analysis

**RPE**

Description ..... Green azure powder Pb ..... ≤ 100 ppm Chlorine ..... ≤ 250 ppm  
Identification ..... Positive Assay (oxidimetric) ..... 53 ÷ 57 % (Cu) Specific gravity ..... 0.8 ÷ 1.05 g/cm<sup>3</sup>  
Fe ..... ≤ 300 ppm Cd ..... ≤ 10 ppm Acidity solubility ..... Complete

Code	Size	Packaging	Notes
475555	250 g	Plastic bottle	
475557	1 kg	Plastic bottle	
475553	25 kg	Plastic bucket	



## Copper (I) chloride

Rame cloruro oso • Cuivre (I) chlorure • Cobre (I) cloruro

Synonym:  
Cuprous chloride  
Copper monochloride

$CuCl$   
Molecular Weight: 98,99  
CAS: 7758-89-6  
EEC-N: 231-842-9

**Classification transport**  
ONU: 2802  
Transport Hazard class: 8  
Packing group III



**Warning**  
H302-H410  
P264-P273-P270-P330-P301+P312a-P391

### Copper (I) chloride > RPE - For analysis

**RPE**

Description ..... green-dark powder HCl-insoluble matter ..... ≤ 0.02 % Sulphate ..... ≤ 0.1 % Fe ..... ≤ 0.02 %  
Identification ..... Positive Substances not ppt. H<sub>2</sub>S ..... ≤ 2 % As ..... ≤ 10 ppm Assay (oxidimetric) ..... ≥ 90.0 %

Code	Size	Packaging	Notes
475605	250 g	Plastic bottle	
475607	1 kg	Plastic bottle	



**Copper (I) chloride solution 7% in ammonia**

Rame cloruro osso soluzione 7% in ammoniaca • Cuivre (I) chlorure solution 7% dans l'ammoniaque • Cobre (I) cloruro solución 7% en amonio hidróxido

Synonym:  
Cuprous chloride  
Copper monochlorideCuCl  
Molecular Weight: 98,99  
CAS: 7758-89-6**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III**Danger**H332-H314-H318-H335-H411  
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338**Copper (I) chloride solution 7% in ammonia > RS - For gas analysis according to Orsat****RS**

Description ..... Blue liquid Identification ..... Positive Density at 20° C ..... ~ 1.08 Assay ..... 6.5 ÷ 7.5 %

Code	Size	Packaging	Notes
E475632	1 l	Bottle	

**Stabilized electrolytic copper****Copper (II) chloride dihydrate**

Rame cloruro ico diidrato • Cuivre (II) chlorure dihydraté • Cobre (II) cloruro dihidrato

Synonym:  
Cupric chloride dihydrateCuCl<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 170,47  
CAS: 10125-13-0  
EEC-N: 215-704-5**Classification transport**  
ONU: 2802  
Transport Hazard class: 8  
Packing group III**Danger**H290-H302-H312-H318-H400-H411  
P264-P273-P280-P305+P351+P338-P330-P301+P312a**Copper (II) chloride dihydrate > RPE - For analysis****RPE**Description ..... Green - azure crystals Assay (complexometric) ..... ≥ 99 % Na ..... ≤ 20 ppm Ni ..... ≤ 50 ppm  
Identification ..... Positive Ca ..... ≤ 20 ppm Sulphate ..... ≤ 50 ppm Pb ..... ≤ 40 ppm  
pH sol. 5% at 20°C ..... 3.0 ÷ 3.8 K ..... ≤ 20 ppm As ..... ≤ 1 ppm  
Total nitrogen ..... ≤ 40 ppm Mg ..... ≤ 20 ppm Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
475685	250 g	Plastic bottle	
475687	1 kg	Plastic bottle	

**Copper (II) chloride dihydrate > RE - Pure****RE**Description ..... Blue crystals Nitrogen compounds (N) ..... ≤ 0.004 % K ..... ≤ 20 ppm Assay ..... ≥ 99 %  
Identification ..... Positive As ..... ≤ 1 ppm Zn ..... ≤ 0.05 %  
pH sol. 5% at 20°C ..... 3 ÷ 3.8 Ca ..... ≤ 20 ppm Solubility ..... Conform  
Sulphate ..... ≤ 50 ppm Nitrate ..... ≤ 0.5 % Pb ..... ≤ 40 ppm

Code	Size	Packaging	Notes
364507	1 kg	Plastic bottle	
364508	5 kg	Plastic jar	
364502	25 kg	Plastic bucket	

**Copper (I) iodide**

Rame ioduro osso • Cuivre (I) iodure • Cobre (I) ioduro

Synonym:  
Cuprous iodideCuI  
Molecular Weight: 190,45  
CAS: 7681-65-4  
EEC-N: 231-674-6**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III**Warning**H302-H315-H319-H335-H410  
P264-P273-P271-P304+P340-P305+P351+P338-P330**Copper (I) iodide > RE - Pure****RE**

Description ..... Polvere nocciola ammass. Identification ..... Positive Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
364611	25 kg	Plastic bucket	



## Copper (II) nitrate trihydrate

Rame nitrato ico triidrato • Cuivre (II) nitrate trihydraté • Cobre (II) nitrato trihidrato

Synonym:  
Cupric nitrate trihydrate

$\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$   
Molecular Weight: 241,6  
CAS: 10031-43-3  
EEC-N: 221-838-5

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H302  
P221-P264-P210a-P280a-P220-P330

### Copper (II) nitrate trihydrate > RPE - For analysis

**RPE**

Description .....Blue crystals	Chloride .....≤10 ppm	Sulphate .....≤25 ppm	Ni .....≤10 ppm
Identification .....Positive	Water-insoluble matter .....≤30 ppm	As .....≤1 ppm	Pb .....≤10 ppm
pH sol. 5% at 25° C .....3.0 ÷ 4.0	Substances not ppt. H <sub>2</sub> S .....≤500 ppm	Ba .....≤50 ppm	Zn .....≤10 ppm
Ammonium .....≤10 ppm	Subst. ppt. by (NH <sub>4</sub> ) <sub>2</sub> S .....≤50 ppm	Fe .....≤20 ppm	Assay (oxidimetric) .....≥99.5 %

Code	Size	Packaging	Notes
475782	100 g	Plastic bottle	
475786	500 g	Plastic bottle	
475783	1 kg	Plastic bottle	
475784	2.5 kg	Plastic bottle	



## Copper (II) oxide

Rame ossido ico • Cuivre (II) oxyde • Cobre (II) óxido

Synonym:  
Cupric oxide

$\text{CuO}$   
Molecular Weight: 79,55  
CAS: 1317-38-0  
EEC-N: 215-269-1

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
H302-H400-H410  
P264-P273-P270-P330-P301+P312a-P391

### Copper (II) oxide > RPE - For analysis

**RPE**

Description .....Black powder	HNO <sub>3</sub> -insoluble matter .....≤ 0.02 %	Zolfo totale (S04) .....≤ 0.01 %
Identification .....Positive	Substances not ppt. H <sub>2</sub> S .....≤ 0.2 %	C .....≤ 500 ppm
Free alkalis .....Conform	Nitrogen compounds (N) .....≤ 0.002 %	Assay (iodometric) .....≥ 99 %

Code	Size	Packaging	Notes
475994	100 g	Glass bottle	
475997	1 kg	Glass bottle	



## Copper (II) pyrophosphate

Rame pirofosfato • Cuivre (II) pyrophosphate • Cobre (II) pirofosfato

Synonym:  
Cupric pyrophosphate hydrate

$\text{Cu}_2\text{P}_2\text{O}_7 \cdot n\text{H}_2\text{O}$   
Molecular Weight: 301,04 (an.)  
CAS: 15191-80-7  
EEC-N: 239-250-2



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Copper (II) pyrophosphate > RE - Pure

**RE**

Description .....Polvere granul. azzurra	Identification .....Positive	Loss on drying .....≤ 20 %	Assay (ex Cu) .....33 ÷ 37 %
--	------------------------------	----------------------------	------------------------------

Code	Size	Packaging	Notes
364621	1 kg	Plastic bottle	

**For electroplating**

**Copper (II) sulfate anhydrous**

Rame solfato ico anidro • Cuivre (II) sulfate anhydre • Cobre (II) sulfato anhidro

Synonym:  
Cupric sulfateCuSO<sub>4</sub>  
Molecular Weight: 159,6  
CAS: 7758-98-7  
EEC-N: 231-847-6**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III**Warning**  
H302-H315-H319-H410  
P264-P273-P305+P351+P338-P330-P332+P313-P337+P313**Copper (II) sulfate anhydrous > RPE - For analysis****RPE**

Description .....	Greyish powder	Dil. H2SO4-ins. matter.....	≤50 ppm	Mg .....	≤100 ppm	Assay (oxidimetric) .....	99 ÷ 100.5 % (s.s.)
Identification .....	Positive	Ca .....	≤50 ppm	Na .....	≤200 ppm		
Loss on drying .....	≤1 %	Fe .....	≤30 ppm	Ni .....	≤50 ppm		
Chloride.....	≤100 ppm	K.....	≤100 ppm	Pb .....	≤80 ppm		

Code	Size	Packaging	Notes
476245	250 g	Plastic bottle	
476247	1 kg	Plastic bottle	
476243	25 kg	Plastic bucket	

**Copper (II) sulfate anhydrous > RE - Pure****RE**

Description .....	Grey powder	Fe .....	≤0.1 %	Assay (oxidimetric) .....	>97 %
Identification .....	Positive	Water-insoluble matter .....	≤0.1 %		

Code	Size	Packaging	Notes
365006	500 g	Plastic bottle	
365007	1 kg	Plastic bottle	
365002	25 kg	Drum	

**Copper (II) sulfate pentahydrate**

Rame solfato ico pentaidrato • Cuivre (II) sulfate pentahydraté • Cobre (II) sulfato pentahidratado

Synonym:  
Blue VitriolCuSO<sub>4</sub>·5H<sub>2</sub>O  
Molecular Weight: 249,68  
CAS: 7758-99-8  
EEC-N: 231-847-6**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III**Danger**  
H301-H315-H319-H410  
P264-P273-P305+P351+P338-P301+P310a-P330-P332+P313**Copper (II) sulfate pentahydrate > RS - For microanalysis****RS**

Description .....	Blue crystals	Not soluble matter.....	≤ 0.005 %	Assay (iodometric) .....	98.0 ÷ 102.0 %
Identification .....	Positive	Nitrogen compounds (N) .....	≤ 0.002 %		

Code	Size	Packaging	Notes
476154	100 g	Glass bottle	

**Copper (II) sulfate pentahydrate > RPE - For analysis - ACS****RPE**

Description .....	Blue crystals	Chloride.....	≤10 ppm	Fe .....	≤30 ppm	Ni .....	≤50 ppm
Identification .....	Positive	H2SO4-insoluble matter .....	≤50 ppm	K.....	≤100 ppm	Assay (oxidimetric) .....	98.0 ÷ 102.0 %
Total nitrogen.....	≤20 ppm	Ca .....	≤50 ppm	Na .....	≤200 ppm		

Code	Size	Packaging	Notes
476096	100 g	Plastic bottle	
476097	1 kg	Plastic bottle	
476099	5 kg	Plastic jar	
476092	25 kg	Plastic bucket	

**Copper (II) sulfate pentahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP****ERBApharm**

Description .....	Blue crystalline powder	Loss on drying .....	35.0 ÷ 36.5 %	Fe .....	≤30 ppm	Ni .....	≤50 ppm
Identification .....	Positive	Chloride.....	≤100 ppm	K.....	≤100 ppm	Pb .....	≤50.0 ppm
Appearance of solution.....	Conform Ph.Eur.	Ca .....	≤50 ppm	Na .....	≤200 ppm	Assay (oxidimetric) .....	99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
364757	1 kg	Plastic bottle	
364759	5 kg	Plastic jar	
364752	25 kg	Plastic bucket	



## Copper (II) sulfate solution 12.5%

Rame solfato ico soluzione 12.5% • Cuivre (II) sulfate solution 12.5% • Cobre (II) sulfato solución 12.5%

Synonym:  
Cupric sulfate

$\text{CuSO}_4$   
Molecular Weight: 159.60  
CAS: 7758-98-7

**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III



**Warning**  
H315-H319-H411  
P264-P273-P280-P305+P351+P338-P332+P313-  
P337+P313

### Copper (II) sulfate solution 12.5% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611022501	100 ml	Plastic bottle	Ref Ph.Eur 1022500

### Copper (II) sulfate solution 12.5% > RPE - For analysis

RPE

Description ..... Clear blue liquid    Identification ..... Positive    Density at 20° C ..... ~ 1.08    Assay (oxidimetric) ..... 12.0 ÷ 13.0 %

Code	Size	Packaging	Notes
E476211	1 l	Bottle	



## m-Cresol

m-Cresolo • m-Crésol • m-Cresol

Synonym:  
3-Hydroxytoluene  
3-Methylphenol

$\text{CH}_3\text{C}_6\text{H}_4\text{OH}$   
Molecular Weight: 108,14  
CAS: 108-39-4  
EEC-N: 203-577-9

**Classification transport**  
ONU: 2076  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H311-H314  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P301+P310a

### m-Cresol > RE - Pure

RE

Description ..... Reddish liquid    Water (K.F.) ..... ≤0.05 %    Boiling point ..... ~ 202 ° C  
Identification ..... Positive    Assay (GLC) ..... ≥99 %    Melting point ..... ~ 12 ° C

Code	Size	Packaging	Notes
440435	250 g	Glass bottle	
440437	1 kg	Glass bottle	



## o-Cresol red

Rosso o-cresolo • Rouge de o-crésol • Rojo de o-cresol

Synonym:  
o-Cresolsulfonphthalein

$\text{C}_{21}\text{H}_{18}\text{O}_5\text{S}$   
Molecular Weight: 382,44  
CAS: 1733-12-6  
EEC-N: 217-064-2



**Warning**  
H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### o-Cresol red > RPE - For analysis

RPE

Description ..... Red brown powder    Alcohol-insolub. matter ..... Conform    Loss on drying (110°C) ..... ≤ 3.0 %  
Identification ..... Positive    Sensitivity(pH 7.2-8.8) ..... Conform    Colour change ..... yellow red

Code	Size	Packaging	Notes
476778	5 g	Glass bottle	

Clark indicator series



## m-Cresol purple

Porpora m-cresolo • Pourpre de m-cresol • Púrpura de m-cresol

Synonym:  
m-Cresolsulfonphthalein

$C_{21}H_{18}O_5S$   
Molecular Weight: 382,44  
CAS: 2303-01-7  
EEC-N: 218-960-6

### m-Cresol purple > RPE - For analysis

RPE

Description .....Dark green powder Solubilità (0.1% in EtOH 50%).....Complete Colour change.....yellow - violet  
Identification .....Positive E (1%/1cm) a 578nm in tamp.....≥ 900 pH range .....7.4 ÷ 9.0

Code	Size	Packaging	Notes
470067	1 g	Glass bottle	
470068	25 g	Glass bottle	

Clark indicator series. Acid-base indicator (pH 2.4 to 7.6 ÷ 0.5 ÷ 9.2)



## o-Cresol

o-Cresolo • o-Crésol • o-Cresol

Synonym:  
2-Methylphenol

$CH_3C_6H_4OH$   
Molecular Weight: 108,14  
CAS: 95-48-7  
EEC-N: 202-423-8

**Classification transport**  
ONU: 3455  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H311-H314  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P301+P310a

### o-Cresol > RE - Pure

RE

Description .....Colourless to yellow brown liquid or solid Boiling point.....189.5 ÷ 192.5 °C Water (K.F.).....≤ 0.3 %  
Identification .....Positive Melting point.....29 ÷ 31 °C Assay (GLC).....≥ 98 %

Code	Size	Packaging	Notes
440385	250 g	Glass bottle	
440387	1 kg	Glass bottle	



## o-Cresol Red solution 0.2% in ethanol

Rosso o-cresolo soluzione 0,2% in alcol etilico • Rouge de o-crésol solution 0.2% dans l'éthanol •  
Rojo de o-cresol solución 0.2% en alcohol etílico

Synonym:  
o-Cresolsulfonphthalein

$C_{21}H_{18}O_5S$   
Molecular Weight: 382,44  
CAS: 1733-12-6

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### o-Cresol Red solution 0.2% in ethanol > RPE - For analysis

RPE

Description .....Red liquid Identification .....Positive Sensitivity(pH 7.2-8.8).....Conform Colour change.....Yellow-red violet

Code	Size	Packaging	Notes
E476805	250 ml	Bottle	

Indicator series Clark indicator acid-base (pH 0.2 to 1.8 to 7.0 ÷ 8.8)

## o-Cresolsulfonphthalein ► o-Cresol red



## alpha-trans-Crotonic acid

Acido alfa-trans-crotonico • Acide alpha-trans-crotonique • Acido alfa-trans-crotonico

$CH_3CH:CHCOOH$   
Molecular Weight: 86,09  
CAS: 3724-65-0  
EEC-N: 223-077-4

**Classification transport**  
ONU: 2823  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H311-H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P330-  
P332+P313

### alpha-trans-Crotonic acid > RPE - For analysis

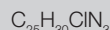
RPE

Description .....xx.ni bianchi o giall Chloride.....≤10 ppm Sulphate.....≤50 ppm  
Identification .....Positive Heavy metals (Pb).....≤20 ppm Fe.....≤10 ppm  
Melting point.....70.1 ÷ 73.1 °C Residue on ignition.....≤100 ppm Assay (acidimetric).....99 ÷ 100 %

Code	Size	Packaging	Notes
404923	50 g	Glass bottle	

**Crystal violet**

Violetto cristalli • Violet cristallisé • Violeta cristal

Synonym:  
Crystal violet solution  
Basic violet 3

Molecular Weight: 407,99

CAS: 548-62-9

EEC-N: 208-953-6

**Classification transport**

ONU: 2811

Transport Hazard class: 6.1

Packing group III

**Danger**

H302-H318-H351-H410

P264-P273-P280i-P305+P351+P338-

P308+P313-P330

**Crystal violet > RPE - For analysis - C.I. 42555****RPE**

Description ..... Dark green powder

Suitability for anhydrous titration ...Conform

Alcohol-insolub. matter..... ≤0,5 %

Colour change..... yellow blue

Identification ..... Positive

Loss on drying ..... ≤9 %

Residue on ignition..... ≤2,5 %

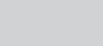
pH range ..... 0.1 - 2.0

Code	Size	Packaging	Notes
491502	25 g	Glass bottle	

**Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 0.1 ÷ 2.0)****Crystal violet oxalate for Gram-Hucker Kit**

Violetto cristalli ossalato soluzione per kit Gram-Hucker • Violet cristallisé oxalate pour kit de Gram-Hucker •

Violeta cristal oxalato solución para kit Gram- Hucker

**Warning**

H302-H319-H351-H412

P264-P273-P280-P305+P351+P338-

P308+P313-P330

**Crystal violet oxalate for Gram-Hucker Kit > RS - For bacteriology****RS**

Description ..... Violet clear liquid

Identification ..... Positive

Code	Size	Packaging	Notes
491561	250 ml	Bottle	

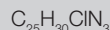
CE IVD

**Crystal violet solution 0.5% in anhydrous acetic acid**

Violetto cristalli soluzione 0.5% in acido acetico anidro •

Violet cristallisé solution 0.5% dans l'acide acétique anhydre •

Violeta cristal solución 0.5% en acido acético anhidro

Synonym:  
Crystal violet solution  
Basic violet 3

Molecular Weight: 407,99

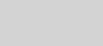
CAS: 548-62-9

**Classification transport**

ONU: 2920

Transport Hazard class: 8

Packing group II

**Danger**

H226-H314-H318-H412

P210-P241-P264-P273-P301+P330+P331-

P303+P361+P353-P304+P340-P305+P351+P338-

P403+P235

**Crystal violet solution 0.5% in anhydrous acetic acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611022901	100 ml	Glass bottle	Ref Ph.Eur 1022901

**Crystal violet solution 0.5% in anhydrous acetic acid > RPE - For analysis****RPE**

Description ..... Violet clear liquid

Identification ..... Positive

Code	Size	Packaging	Notes
E491551	500 ml	Bottle	

**Cupri-citric solution**

Cupri-citrico soluzione • Solution cupri-citrique • Cobre-citríco solución

**Classification transport**

ONU: 3082

Transport Hazard class: 9

Packing group III



H411

P273-P391-P501a

**Cupri-citric solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611023100	1 l	Plastic bottle	Ref Ph.Eur 1023100

**Cupriethylenediamine solution**

Cuprietilendiammina soluzione • Cupriéthylènediamine solution • Cobre etilendiamina solución

Synonym:

*Bis(ethylenediamine)copper(II) hydroxide solution  
Copper(II)-ethylenediamine complex*Cu(NH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>)<sub>2</sub>(OH)<sub>2</sub>  
Molecular Weight: 217,76  
CAS: 14552-35-3**Classification transport**ONU: 1761  
Transport Hazard class: 8  
Packing group II**Danger**H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Cupriethylenediamine solution > RPE - For analysis****RPE**Description ..... Blue liquid Assay (ex Cu) ..... 0.98 ÷ 1.02 M/l Assay (cupriethylenediamine) ..... 0.98 ÷ 1.02 M/l  
Identification ..... Positive Assay(Ethylenediamine) ..... 1.96 ÷ 2.04 M/l

Code	Size	Packaging	Notes
E441071	1 l	Glass bottle	

**Cupri-tartaric solution**

Cupri-tartarico soluzione • Solution cupri-tartrique • Cobre-tartárico solución

**Classification transport**ONU: 1719  
Transport Hazard class: 8  
Packing group II**Danger**H314-H318-H411  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Cupri-tartaric solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611023300	2 x 500 ml	Plastic bottle	Ref Ph.Eur 1023300

**Cyanide standard solution**

Cianuri standard soluzione • Cyanure solution standard • Cianuro, solución patrón

**Classification transport**ONU: 1760  
Transport Hazard class: 8  
Packing group III**Warning**H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a**Cyanide standard solution > RS - Standard solution for ion chromatography****RS**

Code	Size	Packaging	Notes
503358	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Cyclohexane**

Cicloesano • Cyclohexane • Ciclohexano

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>  
Molecular Weight: 84,16  
CAS: 110-82-7  
EEC-N: 203-806-2**Classification transport**ONU: 1145  
Transport Hazard class: 3  
Packing group II**Danger**H225-H315-H336-H304-H410  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235**Cyclohexane > RS - For HPLC - Isocratic Grade****RS**Description ..... Clear colourless liquid Water (K.F) ..... ≤100 ppm **U.V. Transmittance** at 240 nm ..... ≥92 %  
Identification ..... Positive Residue on evaporation ..... ≤2 ppm at 200 nm ..... ≥4 % At 250 nm ..... ≥98 %  
Density at 20° C ..... 0.776 ÷ 0.782 at 210 nm ..... ≥15 % at 260 nm ..... ≥98.5 %  
Refractive index at 20°C. 1.4229 ÷ 1.4299 Assay (GLC) ..... ≥99.9 % at 220 nm ..... ≥50 % Aromatic compounds ..... ≤5 ppm  
Boiling point ..... 80.2 ÷ 81.2 ° C at 230 nm ..... ≥80 %

Code	Size	Packaging	Notes
412431000	1 l	Glass bottle	
412432000	2.5 l	Glass bottle	

**Cyclohexane > RS - PESTIPUR - For pesticide analysis****RS**

Description .....	Clear colourless liquid	Water .....	≤ 100 ppm	GC-NPD (Ethylparation) .....	≤ 3 ng/l
Identification .....	Positive	Not volatile residue .....	≤ 2 ppm	Assay (GLC) .....	≥ 99.8 %
Colour .....	≤ 10 hazen	GC-ECD (Lindano) .....	≤ 3 ng/l	Refractive index at 20°C .....	1.424 ÷ 1.428

Code	Size	Packaging	Notes
436931	1 l	Glass bottle	
436932	2.5 l	Glass bottle	

**Cyclohexane > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.****RS**

Description .....	Clear colourless liquid	Melting point .....	5.5 ÷ 7.5 ° C	<b>U.V. Transmittance</b>	UV Absorbance at 235 nm .....	≤ 0.16 AU	
Colour (APHA) .....	≤ 10	Acidity or alkalinity .....	≤ 0.0002 meq/g	at 210 nm .....	≥ 15 %	UV Absorbance at 240 nm .....	≤ 0.05 AU
Identification .....	Positive	Water (K.F.) .....	≤ 100 ppm	at 220 nm .....	≥ 45 %	UV Absorbance at 250 nm .....	≤ 0.01 AU
Density at 20° C .....	0.776 ÷ 0.782	Residue on evaporation .....	≤ 5 ppm	at 230 nm .....	≥ 75 %		
Refractive index at 20°C .....	1.4229 ÷ 1.4299	Aromatic compounds .....	≤ 5 ppm	at 250 nm .....	≥ 98 %		
Boiling point .....	80.2 ÷ 81.2 ° C	Assay (GLC) .....	≥ 99.9 %	UV Absorbance at 220 nm .....	≤ 0.35 AU		

Code	Size	Packaging	Notes
436967	1 l	Glass bottle	
436963	2.5 l	Glass bottle	

**Cyclohexane > RS - Anhydrous - For analysis****RS**

Refractive index at 20°C .....	1.424 - 1.428	Colour .....	≤ 10 Hazen	Methylcyclohexane .....	≤ 1000 mg/Kg	Density d20/4 .....	0.775 - 0.782
Water content (K.F.) .....	≤ 50 mg/Kg	Aromatic compounds .....	≤ 150 mg/Kg	Clear liquid appearance .....	Conform	Total sulphur (S) .....	≤ 1 ppm
Non volatile residue .....	≤ 10 mg/Kg	Assay (GC) .....	≥ 99.8 %	Identification (IR) .....	Conform		

Code	Size	Packaging	Notes
P0251010	200 ml	Bottle with septum	
P0251016	1 l	Glass bottle	

**Cyclohexane > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	Clear liquid	Alcohol miscibility .....	Complete	Melting point .....	5.5 ÷ 7.5 ° C	Total sulphur .....	≤ 1 ppm
Colour (APHA) .....	≤ 10	Diethyl ether miscib. ....	Complete	Water (K.F.) .....	≤ 100 ppm	Assay (GLC) .....	≥ 99.8 %
Identification (I.R.) .....	Conform	Density at 20° C .....	0.776 ÷ 0.782	Residue on evaporation .....	≤ 10 ppm	Aromatic compounds .....	≤ 150 ppm
Water solubility .....	Conform	Refractive index at 20°C .....	1.4229 ÷ 1.4299	Acidity (acetic acid) .....	≤ 10 ppm	Methylcyclohexane .....	≤ 0.1 %
Ready carbonizable substances .....	Conform	Boiling point .....	80 ÷ 82 ° C	Subst. reducing KMnO4 .....	≤ 20 ppm(5m)		

Code	Size	Packaging	Notes
436903	1 l	Glass bottle	
436905	2.5 l	Glass bottle	
436906	5 l	Plastic tank	
436901	10 l	Metal tank	
436902	21 kg	Metal drum	
436908	150 kg	Metal drum	

**Cyclohexane > RE - Pure****RE**

Description .....	Clear liquid	Density at 20° C .....	0.774 ÷ 0.784	Boiling point .....	80 ÷ 82 ° C	Residue on evaporation .....	≤ 50 ppm
Identification .....	Positive	Refractive index at 20°C .....	1.4214 ÷ 1.4314	Water (K.F.) .....	≤ 150 ppm	Assay (GLC) .....	≥ 99.8 %

Code	Size	Packaging	Notes
333752	1 l	Glass bottle	
333751	2.5 l	Glass bottle	
528215	5 l	Plastic tank	
508235	10 l	Plastic tank	
333753	21 kg	Metal drum	
528216	25 l	Plastic tank	
528217	200 l	Metal drum	



**Cyclohexane-d12**

Cicloesano-d12 • Cyclohexane-d12 • Ciclohexano-d12

C<sub>6</sub>D<sub>12</sub>

Molecular Weight: 96,07

CAS: 1735-17-7

EEC-N: 217-077-3

**Danger**

H225-H315-H336-H304-H410

P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

**Cyclohexane-d12 > RS - For NMR - min 99.5%****RS**

Code	Size	Packaging	Notes
P5151A	2 x 0.5 ml	Glass ampoule	

**Cyclohexanol**

Cicloesanol • Cyclohexanol • Ciclohexanol

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CHOH

Molecular Weight: 100,16

CAS: 108-93-0

EEC-N: 203-630-6

**Warning**

H302-H332-H315-H335

P264-P271-P304+P340-P330-P332+P313-P403+P233

**Cyclohexanol > RE - Pure****RE**

Description ..... Clear colourless liquid    Refractive index at 20°C ..... 1.4600 ÷ 1.4670    Assay (GLC) ..... ≥98 %  
 Identification ..... Positive    Residue on evaporation ..... ≤0.1 %

Code	Size	Packaging	Notes
333801	1 l	Glass bottle	

**Cyclohexanone**

Cicloesanone • Cyclohexanone • Ciclohexanona

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CO

Molecular Weight: 98,15

CAS: 108-94-1

EEC-N: 203-631-1

**Classification transport**

ONU: 1915

Transport Hazard class: 3

Packing group III

**Warning**

H226-H332

P210-P241-P243-P303+P361+P353-P304+P340-P403+P235

**Cyclohexanone > RPE - For analysis****RPE**


Description ..... Clear colourless liquid    Refractive index at 20°C ..... 1.4477 ÷ 1.4537    Residue on evaporation ..... ≤500 ppm    Heavy metals (Pb) ..... ≤2 ppm  
 Identification ..... Positive    Boiling point ..... 152 ÷ 157 °C    Aldehydes (Formaldehyde) ..... ≤ 0.1 %    Fe ..... ≤10 ppm  
 Density at 20° C ..... 0.941 ÷ 0.951    Water (K.F) ..... ≤0.1 %    Cyclohexanol ..... ≤ 0.1 %    Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
437053	1 l	Glass bottle	
437052	2.5 l	Glass bottle	
437055	25 kg	Metal drum	

**Cyclohexanone > RE - Pure****RE**

Description ..... Yellow clear liquid    Refractive index at 20°C ..... 1.4457 ÷ 1.4557    Acidity (CyclohexilcarAc) ..... ≤0.2 %    Assay (GLC) ..... ≥99 %  
 Identification ..... Positive    Boiling point ..... 152 ÷ 157 °C    Cyclohexanol ..... ≤ 0.1 %  
 Density at 20° C ..... 0.941 ÷ 0.951    Water (K.F) ..... ≤0.1 %    Residue on evaporation ..... ≤500 ppm

Code	Size	Packaging	Notes
333901	1 l	Glass bottle	
333905	5 l	Aluminium can	
333902	26 kg	Metal drum	
528332	200 l	Metal drum	

	<b>Cyclohexylamine</b> Cicloesilamina • Cyclohexylamine • Ciclohexilamina	Synonym: Aminocyclohexane
	$\text{CH}_2(\text{CH}_2)_4\text{CHNH}_2$ Molecular Weight: 99,18 CAS: 108-91-8 EEC-N: 203-629-0	<b>Classification transport</b> ONU: 2357 Transport Hazard class: 8 Packing group II

**Cyclohexylamine > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 0.864 ÷ 0.870    Boiling point ..... 134.0 ÷ 135.0 ° C    Assay (alkalimetric) ..... ≥99 %  
Identification ..... Positive    Refractive index at 20°C. 1.4572 ÷ 1.4612    Residue on ignition ..... ≤50 ppm

Code	Size	Packaging	Notes
437104	1 l	Glass bottle	

	<b>Cyclopentyl methyl ether</b> Ciclopentil-metil-etero • Cyclopentylméthyléter • Ciclopentil metil eter	Synonym: CPME
	$\text{C}_6\text{H}_{12}\text{O}$ Molecular Weight: 100,16 CAS: 5614-37-9	<b>Classification transport</b> ONU: 3271 Transport Hazard class: 3 Packing group II

**Cyclopentyl methyl ether > RE - Pure****RE**

Refractive index at 20°C ..... 1.4199 - 1.4219    Colour ..... ≤ 10 Hazen    Peroxides ..... ≤ 50 meq/Kg  
Water content (K.F.) ..... ≤ 100 mg/Kg    Assay (GC) ..... ≥ 99.9 %

Code	Size	Packaging	Notes
P8010216	1 l	Glass bottle	
P8010229	5 l	Plastic tank	

	<b>L-Cysteine</b> L-Cisteina • L-Cystéine • L-Cisteína	Synonym: (R,R)-2-Amino-3-mercaptopropionic acid
	$\text{HSCH}_2\text{CH}(\text{NH}_2)\text{COOH}$ Molecular Weight: 121,16 CAS: 52-90-4 EEC-N: 200-158-2	

**L-Cysteine > RPE - For analysis****RPE**

Description ..... White powder    Loss on drying ..... ≤ 0.5 %    Residue on ignition ..... ≤ 0.1 %  
Identification ..... Positive    Chloride ..... ≤ 400 ppm    Sulphate ..... ≤ 300 ppm  
Specific optical rotation ..... +8 ÷ +9.5 °    Heavy metals (Pb) ..... ≤ 10 ppm    Assay with HClO4 ..... ≥ 98.0 % (s.s)

Code	Size	Packaging	Notes
437308	5 g	Glass bottle	
437309	100 g	Glass bottle	

	<b>L-Cystine</b> L-Cistina • L-Cystine • L-Cistina	Synonym: (R,R)-3,3'-Dithiobis(2-aminopropionic acid)
	$\text{C}_6\text{H}_{12}\text{N}_2\text{O}_4\text{S}_2$ Molecular Weight: 240,3 CAS: 56-89-3 EEC-N: 200-296-3	

**L-Cystine > RPE - For analysis****RPE**

Description ..... White crystalline powder    Potere rotat. spec. (C=2; HCl 1M)... -209 ÷ -224 ° (s.s.)    Chloride ..... ≤ 200 ppm    Residue on ignition ..... ≤ 0.1 %  
Identification ..... Positive    Ammonium ..... ≤ 200 ppm    Sulphate ..... ≤ 300 ppm    Fe ..... ≤ 10 ppm  
Loss on drying ..... ≤ 0.5 %    Heavy metals (Pb) ..... ≤ 10 ppm    Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
437351	10 g	Glass bottle	
437355	100 g	Glass bottle	

**Decalcifying agent**

Decalcificante • Décalcifiant • Descalcificante

**Classification transport** HEU210  
 ONU: 3264  
 Transport Hazard class: 8  
 Packing group III

**Decalcifying agent > RS - For histology****RS**

Description ..... Clear colourless liquid    Identification ..... Positive    Titolo EDTA Na2 (mom. preparaz.) ≥ 0.26 % (p/p)    Titolo HCl (mom. preparaz.) ≥ 2.21 % (p/p)

Code	Size	Packaging	Notes
441221	1 l	Plastic bottle	

CE IVD

**Decane**

Decano • Décane • Decano

$\text{CH}_3(\text{CH}_2)_8\text{CH}_3$   
 Molecular Weight: 142,28  
 CAS: 124-18-5  
 EEC-N: 204-686-4

**Classification transport**  
 ONU: 2247  
 Transport Hazard class: 3  
 Packing group III



**Danger**  
 H226-H304  
 P210-P241-P243-P280a-P303+P361+P353-P403+P235

**Decane > RE - Pure****RE**

Refractive index at 20°C ..... 1.408 - 1.412    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0093016	1 l	Glass bottle	

**Decanedioic acid ▶ Sebacic acid****1-Decanesulfonic acid sodium salt**

Acido 1-decanosulfonico sale sodico • Acide 1-decanesulfonique sel sodique • Acido 1-decanosulfónico sal sódica

Synonym:  
*Sodium 1-decanesulfonate*  
*1-Decanesulfonic acid sodium salt*

$\text{CH}_3(\text{CH}_2)_9\text{SO}_3\text{Na}$   
 Molecular Weight: 244,33  
 CAS: 13419-61-9



**Warning**  
 H315-H319-H335  
 P264-P271-P280-P304+P340-P305+P351+P338-P312a

**1-Decanesulfonic acid sodium salt > RS - For ion pair chromatography****RS**

Description ..... White to cream powder    **Absorbance (0,2M)**    At 230 nm ..... ≤ 0.02 AU  
 Water (K.F) ..... ≤ 1.0 %    At 210 nm ..... ≤ 0.05 AU    At 260 nm ..... ≤ 0.02 AU  
 Assay ..... ≥ 99.0 %    At 220 nm ..... ≤ 0.03 AU    Solubility 5% in water ..... Clear and colourless solution

Code	Size	Packaging	Notes
405871	25 g	Glass bottle	
405872	100 g	Plastic bottle	



## Density Standard

Densità standard • Etalons de densité • Patrones de densidad

### Density Standard > RS - PREMIUM - For calibration

RS

Code	Size	Packaging	Notes
540401	100 ml	Glass bottle	0.6960g/ml at 15°C
540402	100 ml	Glass bottle	0.8715g/ml at 15°C
540403	100 ml	Glass bottle	1.0040g/ml at 15°C
540404	100 ml	Glass bottle	1.2498g/ml at 15°C
540405	100 ml	Glass bottle	0.6919g/ml at 20°C
540406	100 ml	Glass bottle	0.7033g/ml at 20°C
540407	100 ml	Glass bottle	0.7488g/ml at 20°C
540408	100 ml	Glass bottle	0.8668g/ml at 20°C
540409	100 ml	Glass bottle	1.0005g/ml at 20°C
540410	100 ml	Glass bottle	1.0301g/ml at 20°C
540411	100 ml	Glass bottle	1.0792g/ml at 20°C
540412	100 ml	Glass bottle	1.1651g/ml at 20°C
540413	100 ml	Glass bottle	1.2486g/ml at 20°C
540414	100 ml	Glass bottle	1.3304g/ml at 20°C
540415	100 ml	Glass bottle	1.5799g/ml at 20°C
540416	100 ml	Glass bottle	1.7470g/ml at 20°C
540417	100 ml	Glass bottle	1.9141g/ml at 20°C
540418	100 ml	Glass bottle	0.8207g/ml at 40°C
540420	100 ml	Glass bottle	0.9323g/ml at 40°C
540421	100 ml	Glass bottle	1.2408g/ml at 40°C
540422	100 ml	Glass bottle	0.9990g/ml at 60°C

***In accordance with ASTM D1480-12 for testing of Density or Relative Density (specific and API gravity) by Bingham Pycnometer. For density measurement by pycnometric techniques, vibrational techniques or hydrometer based techniques***

## Density Standard &gt; RS - QUALITY - For calibration

RS

Code	Size	Packaging	Notes
540451	100 ml	Glass bottle	0.7524g/ml at 15°C
540452	100 ml	Glass bottle	0.7721g/ml at 15°C
540453	100 ml	Glass bottle	0.7933g/ml at 15°C
540454	100 ml	Glass bottle	0.8168g/ml at 15°C
540455	100 ml	Glass bottle	0.8428g/ml at 15°C
540456	100 ml	Glass bottle	0.8715g/ml at 15°C
540457	100 ml	Glass bottle	0.6919g/ml at 20°C
540458	100 ml	Glass bottle	0.7033g/ml at 20°C
540459	100 ml	Glass bottle	0.7488g/ml at 20°C
540460	100 ml	Glass bottle	0.7893g/ml at 20°C
540461	100 ml	Glass bottle	0.8126g/ml at 20°C
540462	100 ml	Glass bottle	0.8384g/ml at 20°C
540463	100 ml	Glass bottle	0.8668g/ml at 20°C
540464	100 ml	Glass bottle	0.9098g/ml at 20°C
540465	100 ml	Glass bottle	0.9476g/ml at 20°C
540470	100 ml	Glass bottle	0.9969g/ml at 25°C
540471	100 ml	Glass bottle	0.9245g/ml at 50°C
540472	100 ml	Glass bottle	0.9695g/ml at 60°C
540473	100 ml	Glass bottle	0.9815g/ml at 80°C
540566	100 ml	Glass bottle	1.0005g/ml at 20°C
540567	100 ml	Glass bottle	1.0301g/ml at 20°C
540568	100 ml	Glass bottle	0.8622g/ml at 25°C
540569	100 ml	Glass bottle	0.9438g/ml at 25°C

In accordance with ASTM D4052 for testing of Density, Relative Density and API Gravity of Liquids by Digital Density Meter  
For density measurement by vibrational techniques or hydrometer based techniques



## Deuterium oxide-d

Deuterio ossido-d • Deutérium oxyde-d • Deuterio oxido-d

Synonym:  
Heavy waterD<sub>2</sub>O

Molecular Weight: 20,03

CAS: 7789-20-0

EEC-N: 232-148-9

## Deuterium oxide-d &gt; RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5160	10 x 0.6 ml	Glass ampoule	
P5169	10 x 0.75 ml	Glass ampoule	
P5164	5 x 10 ml	Glass bottle	
P5165	25 ml	Glass bottle	
P5165S	25 ml	Bottle with septum	
P5166	100 ml	Glass bottle	
P5168	1 l	Glass bottle	

## Deuterium oxide-d &gt; RS - For NMR - min 99.98%

RS

Code	Size	Packaging	Notes
P5179	10 x 0.75 ml	Glass ampoule	
P5175	25 ml	Glass bottle	


 **Deuterium oxide-d + 0.01% DMSO** Synonym:  
Heavy water  
Deuterio ossido-d + 0.01% DMSO • Deutérium oxyde-d + 0.01% DMSO • Deuterio oxido-d + 0.01% DMSO

D<sub>2</sub>O  
Molecular Weight: 20,03  
CAS: 7789-20-0  
EEC-N: 232-148-9

**Deuterium oxide-d + 0.01% DMSO > RS - For NMR - min 99.98%**

**RS**

Code	Size	Packaging	Notes
P5170D	10 x 0.6 ml	Glass ampoule	
P5173D	2 ml	Glass ampoule	


 **Deuterium oxide-d + 0.5% TSP d4** Synonym:  
Heavy water  
Deuterio ossido-d + 0.5% TSP d4 • Deutérium oxyde-d + 0.5% TSP d4 • Deuterio oxido-d + 0.5% TSP d4

D<sub>2</sub>O  
Molecular Weight: 20,03  
CAS: 7789-20-0  
EEC-N: 232-148-9

**Deuterium oxide-d + 0.5% TSP d4 > RS - For NMR - min 99.9%**

**RS**

Code	Size	Packaging	Notes
P5161T	10 x 0.5 ml	Glass ampoule	

 **Deuterium oxide-d + 0.03% TSP d4** Synonym:  
Heavy water  
Deuterio ossido-d + 0.03% TSP d4 • Deutérium oxyde-d + 0.03% TSP d4 • Deuterio oxido-d + 0.03% TSP d4

D<sub>2</sub>O  
Molecular Weight: 20,03  
CAS: 7789-20-0  
EEC-N: 232-148-9

**Deuterium oxide-d + 0.03% TSP d4 > RS - For NMR - min 99.8%**

**RS**

Code	Size	Packaging	Notes
P5160T	10 x 0.6 ml	Glass ampoule	

 **Devarda's alloy**  
Lega Devarda • Alliage de Devarda • Aleación según Devarda

CAS: 8049-11-4

**Classification transport**  
ONU: 3132  
Transport Hazard class: 4.3  
Packing group II

  **Danger**  
H228-H261-H411  
P210-P223-P241-P273-P231+P232-P280

**Devarda's alloy > RPE - For analysis**

**RPE**

Description ..... Greyish metallic powder N ..... ≥0.005 % Cu ..... ≥50 %  
Identification ..... Positive Al ..... ≥45 % Zn ..... ≥5 %

Code	Size	Packaging	Notes
457625	250 g	Glass bottle	
457627	1 kg	Plastic bottle	

**Dextrose ► D(+)-Glucose anhydrous**

**Dextrose monohydrate ► D(+)-Glucose monohydrate**

**Diacetone alcohol**

Diacetonalcòle • Diacétone alcool • Diacetonalcohol

Synonym:

4-Hydroxy-4-methyl-2-pentanone

$(\text{CH}_3)_2\text{C}(\text{OH})\text{CH}_2\text{COCH}_3$   
 Molecular Weight: 116,16  
 CAS: 123-42-2  
 EEC-N: 204-626-7

**Classification transport**

ONU: 1148  
 Transport Hazard class: 3  
 Packing group III

**Warning**

H226-H319  
 P210-P241-P264-P303+P361+P353-  
 P305+P351+P338-P403+P235

**Diacetone alcohol > RPE - For analysis****RPE**

Description ..... Yellow clear liquid      Density at 25° C ..... 0.927 ÷ 0.935      Acidity (acetic acid)..... ≤ 100 ppm      Assay (GLC) ..... ≥ 99 %  
 Identification ..... Positive      Refractive index at 20°C. 1.4212 ÷ 1.4272      Alkalinity (NH<sub>3</sub>)..... ≤ 10 ppm  
 Water miscibility..... Conform      Water (K.F.) ..... ≤ 0.1 %      Heavy metals (Pb)..... ≤ 2 ppm  
 Alcohol miscibility..... Conform      Residue on evaporation ..... ≤ 50 ppm      Fe ..... ≤ 1 ppm

Code	Size	Packaging	Notes
441771	250 ml	Glass bottle	
441774	1 l	Glass bottle	

**Diacetone alcohol > RE - Pure****RE**

Description ..... Yellow clear liquid      Density at 25° C ..... 0.927 ÷ 0.936      Water (K.F.) ..... ≤ 0.3 %      Acidity (acetic acid)..... ≤ 100 ppm  
 Identification ..... Positive      Refractive index at 20°C. 1.4192 ÷ 1.4292      Residue on evaporation ..... ≤ 100 ppm      Assay (GLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
337001	1 l	Glass bottle	
337004	2.5 l	Glass bottle	
337002	18 kg	Metal drum	

**Diacetyldioxime**

Diacetildiossima • Diacétyldioxime • Diacetildioxima

Synonym:

Dimethylglyoxime

2,3-Butanedione dioxime

$\text{CH}_3\text{C}(\text{NOHC})\text{NOHCH}_3$   
 Molecular Weight: 116,12  
 CAS: 95-45-4  
 EEC-N: 202-420-1

**Warning**

H302  
 P264-P270-P330-P301+P312a-P501a

**Diacetyldioxime > RPE - For analysis - ACS****RPE**

Description ..... White crystalline powder      Suitability for Ni det. .... Conform      Alcohol-insolub. matter ..... ≤ 0.05 %  
 Identification ..... Positive      Melting point..... 239 ÷ 241 °C

Code	Size	Packaging	Notes
441553	50 g	Glass bottle	

**Reagent for the spectrophotometric determination of: Co (III), Fe (II), Ni (II), Pd (II)****Diacetyldioxime sodium salt**

Diacetildiossima sale sodico • Diacétyldioxime sel sodique • Diacetildioxima sal sódica

Synonym:

Dimethylglyoxime disodium salt octahydrate

$\text{C}_4\text{H}_6\text{N}_2\text{Na}_2\text{O}_2 \cdot 8\text{H}_2\text{O}$   
 Molecular Weight: 304,09  
 CAS: 75006-64-3  
 EEC-N: 262-523-2

**Warning**

H302  
 P264-P270-P330-P301+P312a-P501a

**Diacetyldioxime sodium salt > RPE - For analysis****RPE**

Description ..... White powder      Suitability for Ni det. .... Conform      Chloride..... ≤50 ppm      Sulphate ..... ≤50 ppm  
 Identification ..... Positive      Loss on drying ..... 45.8 ÷ 49.0 %      Water-insoluble matter ..... ≤50 ppm      Assay (gravimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
441623	50 g	Glass bottle	
441625	250 g	Glass bottle	

**For precipitation of metals**

**Diacetyldioxime solution 1% in ethanol**

Diacetildiossima soluzione 1% in alcol etilico • Diacétyldioxime solution 1% dans l'éthanol • Diacetildioxima solución 1% en alcohol etílico

Synonym:

Dimethylglyoxime

2,3-Butanedione dioxime

CH<sub>3</sub>C:NOHC:NOHCH<sub>3</sub>  
Molecular Weight: 116,12  
CAS: 95-45-4**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group II**Danger**H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235**Diacetyldioxime solution 1% in ethanol > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 15° C ..... 0.813 ÷ 0.819

Code	Size	Packaging	Notes
E441581	500 ml	Bottle	

**Indicator for determining metals****1,2-Diaminoethane ▶ Ethylenediamine****Diatomaceous earth ▶ Kieselguhr composed****Dibenzoyl peroxide**

Dibenzoile perossido • Benzoyle péroxyde • Dibenzoilo peróxido

Synonym:

Benzoyl peroxide

(C<sub>6</sub>H<sub>5</sub>CO)<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 242,22  
CAS: 94-36-0  
EEC-N: 202-327-6**Classification transport**  
ONU: 3104  
Transport Hazard class: 5.2**Danger**H241-H319-H317  
P210-P264-P280a-P305+P351+P338-  
P337+P313-P410**Dibenzoyl peroxide > RE - Pure****RE**

Description ..... White granular powder Identification ..... Positive Assay (oxidimetric) ..... ≥ 62.4 %

Code	Size	Packaging	Notes
427345	250 g	Plastic bottle	

**Dibenzoylmethane**

Dibenzoilmetano • Dibenzoilméthane • Dibenzoilmetano

(C<sub>6</sub>H<sub>5</sub>CO)<sub>2</sub>CH<sub>2</sub>  
Molecular Weight: 224,26  
CAS: 120-46-7  
EEC-N: 204-398-9**Dibenzoylmethane > RPE - For analysis****RPE**Description ..... Yellowish crystalline powder Melting point ..... 77.0 ÷ 79.0 ° C Residue on ignition ..... ≤500 ppm  
Identification ..... Positive Water (K.F.) ..... ≤0.1 % Assay (GLC) ..... ≥ 97 %

Code	Size	Packaging	Notes
441873	25 g	Glass bottle	

**Dicalite 4158**

Dicalite 4158 • Dicalite 4158 • Dicalite 4158

CAS: 93763-70-3

**Dicalite 4158 > RE - For filtration****RE**Permeability (PRFv) ..... 90 - 165 Wet cake density ..... ≤ 13.6 lbs/ft<sup>3</sup> Float ..... ≤ 30 ml/20g

Code	Size	Packaging	Notes
P8880014	500 g	Plastic jar	
P8880017	1 kg	Plastic jar	
P8880027	5 kg	Plastic bucket	

**Substitute to CELITE 545**





## Dichloroacetic acid

Acido dicloroacetico • Acide dichloroacétique • Acido dicloroacético

CHCl<sub>2</sub>COOH  
Molecular Weight: 128,94  
CAS: 79-43-6  
EEC-N: 201-207-0

**Classification transport**  
ONU: 1764  
Transport Hazard class: 8  
Packing group II



### Danger

H314-H400  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Dichloroacetic acid > RPE - For analysis

RPE

Description ..... Clear liquid Colour ..... ≤ 50 APHA Refractive index at 20°C ..... 1.4648 ÷ 1.4668  
Identification ..... Positive Density at 20° C ..... 1.562 ÷ 1.572 Assay (acidimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
405101	250 ml	Glass bottle	
405103	1 l	Glass bottle	

### Dichloroacetic acid > RE - Pure

RE

Description ..... Clear liquid Freezing point ..... ≥ 12 °C Assay (acidimetric) ..... ≥ 99 %  
Identification ..... Positive Water (KF) ..... ≤ 0.3 %

Code	Size	Packaging	Notes
303151	1 l	Glass bottle	



## m-Dichlorobenzene

m-Diclorobenzolo • m-Dichlorobenzène • m-Diclorobenceno

Synonym:

1,3-Dichlorobenzene

C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>  
Molecular Weight: 147  
CAS: 541-73-1  
EEC-N: 208-792-1

**Classification transport**  
ONU: 2810  
Transport Hazard class: 6.1  
Packing group III



### Warning

H302-H411  
P264-P273-P270-P330-P301+P312a-P391

### m-Dichlorobenzene > RPE - For analysis

RPE

Description .... Colourless or yellowish liquid Density at 20° C ..... 1.283 ÷ 1.293 Boiling point ..... 171 ÷ 173 °C Assay (GLC) ..... ≥ 99 %  
Identification ..... Positive Refractive index at 20°C. 1.5435 ÷ 1.5485 Residue on ignition ..... ≤ 100 ppm

Code	Size	Packaging	Notes
442353	100 ml	Glass bottle	



## o-Dichlorobenzene

o-Diclorobenzolo • o-Dichlorobenzène • o-Diclorobenceno

Synonym:

1,2-Dichlorobenzene

C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>  
Molecular Weight: 147  
CAS: 95-50-1  
EEC-N: 202-425-9

**Classification transport**  
ONU: 1591  
Transport Hazard class: 6.1  
Packing group III



### Warning

H302-H315-H319-H335-H410  
P264-P273-P271-P304+P340-  
P305+P351+P338-P330

### o-Dichlorobenzene > RPE - For analysis

RPE

Description ..... Clear liquid Refractive index at 20°C ..... 1.5450 ÷ 1.5520 Acidity (HCl) ..... ≤50 ppm  
Identification ..... Positive Water (K.F) ..... ≤500 ppm Free chlorine ..... ≤1 ppm  
Density at 20° C ..... 1.299 ÷ 1.311 Residue on evaporation ..... ≤50 ppm Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
442301	500 ml	Glass bottle	

### o-Dichlorobenzene > RE - Pure

RE

Description ..... Clear liquid Identification ..... Positive Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
337251	1 l	Glass bottle	



## p-Dichlorobenzene

p-Diclorobenzolo • p-Dichlorobenzène • p-Diclorobenceno

Synonym:

1,4-Dichlorobenzene



Molecular Weight: 147

CAS: 106-46-7

EEC-N: 203-400-5

### Classification transport

ONU: 3077

Transport Hazard class: 9

Packing group III



### Warning

H319-H351-H410

P264-P273-P280i-P305+P351+P338-P308+P313-P337+P313

### p-Dichlorobenzene > RPE - For analysis

RPE

Description ..... White crystals    Melting point ..... 52.0 ÷ 54.0 ° C    Assay (GLC) ..... ≥ 99 %  
 Identification ..... Positive    Residue on ignition ..... ≤ 500 ppm

Code	Size	Packaging	Notes
442406	500 g	Plastic bottle	
442407	1 kg	Plastic bottle	

### p-Dichlorobenzene > RE - Pure

RE

Description ..... White crystals    Identification ..... Positive    Melting point ..... 52 ÷ 56 ° C    Assay (GLC) ..... ≥ 96.0 %

Code	Size	Packaging	Notes
337307	1 kg	Plastic bottle	
337303	25 kg	Plastic bucket	



## 1,2-Dichlorobenzene-d4

1,2-Diclorobenzene-d4 • 1,2-Dichlorobenzène-d4 • 1,2-Diclorobenceno-d4

Synonym:

Tetradéutero-1,2-dichlorobenzene



Molecular Weight: 151,03

CAS: 2199-69-1

### Classification transport

ONU: 1591

Transport Hazard class: 6.1

Packing group III



### Warning

H302-H315-H319-H335-H410

P264-P273-P271-P304+P340-P305+P351+P338-P330

### 1,2-Dichlorobenzene-d4 > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5533A	5 ml	Glass ampoule	



## 1,2-Dichloroethane

sim-Etano dicloro • Sym-dichloroéthane • 1,2-Dicloroetano

Synonym:

Ethylene dichloride



Molecular Weight: 98,97

CAS: 107-06-2

EEC-N: 203-458-1

### Classification transport

ONU: 1184

Transport Hazard class: 3

Packing group II



### Danger

H225-H302-H331-H315-H319-H350-H335-HA26

P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### 1,2-Dichloroethane > RS - For HPLC - Isocratic Grade

RS

Clear, colourless liq. appearance ..... Conform    Water content (K.F.) ..... ≤ 100 mg/Kg    UV transmittance at 255 nm ..... ≥ 90 %    Non volatile residue ..... ≤ 5 mg/Kg  
 Identification ..... Conform    UV transmittance at 240 nm ..... ≥ 20 %    UV transmittance at 260 nm ..... ≥ 98 %  
 Colour ..... ≤ 10 Apha    UV transmittance at 245 nm ..... ≥ 55 %    Free acid (as HCl) ..... ≤ 5 mg/Kg  
 Refractive index at 20°C ..... 1.443 - 1.447    UV transmittance at 250 nm ..... ≥ 78 %    Assay (GC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
447191	1 l	Glass bottle	
447192	2.5 l	Glass bottle	

### 1,2-Dichloroethane > RS - SPECTROSOL - For optical spectroscopy

RS

Clear, colourless liq. appearance ..... Conform    Colour ..... ≤ 10 Hazen    UV transmittance at 240 nm ..... ≥ 90 %    Free acid (as HCl) ..... ≤ 5 mg/Kg  
 Refractive index at 20°C ..... 1.443 - 1.447    UV transmittance at 225 nm ..... ≥ 10 %    UV transmittance at 250 nm ..... ≥ 95 %    Assay (GC) ..... ≥ 99.8 %  
 Water content (K.F.) ..... ≤ 100 mg/Kg    UV transmittance at 230 nm ..... ≥ 50 %    UV transmittance at 260 nm ..... ≥ 99 %    Non volatile residue ..... ≤ 5 mg/Kg

Code	Size	Packaging	Notes
P0282716	1 l	Glass bottle	

## 1,2-Dichloroethane > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C.....	1.443 - 1.447	Non volatile residue.....	≤ 10 mg/Kg	Free acid (as HCl).....	≤ 5 mg/Kg
Water content (K.F.).....	≤ 100 mg/Kg	Colour.....	≤ 10 Hazen	Assay (GC).....	≥ 99.8 %

Code	Size	Packaging	Notes
P0281010	200 ml	Bottle with septum	
P0281016	1 l	Glass bottle	
P0281021	2.5 l	Glass bottle	

## 1,2-Dichloroethane > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description.....	Clear liquid	Distillation range (≥ 95%).....	82 ÷ 84 °C	Total phosphorus.....	≤0.5 ppm	K.....	≤0.2 ppm
Colour (APHA).....	≤10	Acidity.....	≤0.0003 meq/g	Total silicon.....	≤0.05 ppm	Mg.....	≤0.1 ppm
Identification.....	Positive	Water (K.F.).....	≤200 ppm	Total sulphur.....	≤0.5 ppm	Na.....	≤0.5 ppm
Density at 20° C.....	1.248 ÷ 1.264	Residue on evaporation.....	≤10 ppm	Ca.....	≤0.5 ppm	Pb.....	≤0.02 ppm
Refractive index at 20°C.....	1.4418 ÷ 1.4478	Free chlorine.....	≤1 ppm	Cu.....	≤0.05 ppm	Zn.....	≤0.2 ppm
Boiling point.....	83.0 ÷ 84.0 °C	Subst. reducing KMnO4.....	≤10 ppm	Fe.....	≤0.1 ppm	Assay (GLC).....	≥99.8 %

Code	Size	Packaging	Notes
447121000	1 l	Glass bottle	

## 1,2-Dichloroethane > RE - Pure

**RE**

Description.....	Clear liquid	Refractive index at 20°C.....	1.4398 ÷ 1.4498	Water (K.F.).....	≤300 ppm	Acidity (HCl).....	≤ 10 ppm
Water content (K.F.).....	≤ 300 mg/Kg	Colour.....	≤ 10 Hazen	Assay (GC).....	≥ 99.8 %		
Identification.....	Positive	Colour (APHA).....	≤20	Assay (GLC).....	≥99.8 %		
Non volatile residue.....	≤ 50 mg/Kg	Free acid (as HCl).....	≤ 10 mg/Kg	Residue on evaporation.....	≤ 50 ppm		

Code	Size	Packaging	Notes
340151	1 l	Glass bottle	
P0280228	5 l	Plastic tank	
340155	34 kg	Metal drum	



## 2',7'-Dichlorofluorescein

2'-7'-Diclorofluoresceina • 2',7'-Dichlorofluoresceine • 2',7'-Diclorofluoresceína

C20H10O5Cl2  
Molecular Weight: 401,21  
CAS: 76-54-0  
EEC-N: 200-968-6


**Warning**

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

## 2',7'-Dichlorofluorescein > RPE - For analysis

**RPE**

Description.....	Ochre powder	Loss on drying (110°C).....	≤ 5 %	Cu.....	≤ 50 ppm	Ni.....	≤ 50 ppm
Identification.....	Positive	Assorbimento max. (in NaOH 0.1N).....	501 ÷ 503 nm	Fe.....	≤ 50 ppm	Pb.....	≤ 50 ppm

Code	Size	Packaging	Notes
442541	10 g	Glass bottle	



## Dichloromethane

Diclorometano • Dichlorométhane • Diclorometano

Synonym:  
*Methylene chloride*

CH2Cl2  
Molecular Weight: 84,93  
CAS: 75-09-2  
EEC-N: 200-838-9

**Classification transport**

ONU: 1593  
Transport Hazard class: 6.1  
Packing group III


**Warning**

H315-H319-H351-H335-H336-H373  
P264-P271-P304+P340-P305+P351+P338-P308+P313-P312a

## Dichloromethane > RS - For HPLC - Isocratic grade - Stabilized with amylene

**RS**

Description.....	Clear colourless liquid	Boiling point.....	39.6 ÷ 40.1 °C	Assay (GLC).....	≥99.9 %	at 250 nm.....	≥96 %
Identification.....	Positive	Acidity.....	≤ 0.0001 meq/g	<b>U.V. Transmittance</b>		at 260 nm.....	≥99 %
Density at 20° C.....	1.322 ÷ 1.328	Water (K.F.).....	≤100 ppm	At 235 nm.....	≥ 40 %	Amylene.....	≤ 60 ppm
Refractive index at 20°C.....	1.4214 ÷ 1.4274	Residue on evaporation.....	≤2 ppm	at 240 nm.....	≥70 %		

Code	Size	Packaging	Notes
412621000	1 l	Glass bottle	
412622000	2.5 l	Glass bottle	

## Dichloromethane > RS - For HPLC - Isocratic grade - Stabilized with ethanol

**RS**

Description .....	Clear colourless liquid	Acidity (Formic acid) .....	≤ 5 ppm	<b>Transmittance U.V.</b>	at 260 nm .....	≥ 99 %	
Identification .....	Positive	Residue on evaporation .....	≤ 5 ppm	at 235 nm .....	≥ 40 %	Assay (GLC) .....	≥ 99.9 %
Boiling point .....	39.55 ÷ 40.05 °C	Ethanol .....	0.1 ÷ 0.4 %	at 240 nm .....	≥ 75 %	<b>Filtered at 0.2 µm</b>	
Density at 20°C .....	1.322 ÷ 1.328	Water (K.F.) .....	≤ 100 ppm	at 245 nm .....	≥ 90 %		
Refractive index at 20°C .....	1.4214 ÷ 1.4274			at 255 nm .....	≥ 96 %		

Code	Size	Packaging	Notes
412662	1 l	Glass bottle	
412661	2.5 l	Glass bottle	

## Dichloromethane > RS - For preparative HPLC - Stabilized with amylene

**RS**

Description .....	Clear colourless liquid	Boiling point .....	39.6 ÷ 40.1 °C	Assay (GLC) .....	≥ 99.5 %	Amylene .....	20 ÷ 60 ppm
Identification .....	Positive	Water (K.F.) .....	≤ 500 ppm	<b>U.V. Transmittance</b>			
Density at 20°C .....	1.322 ÷ 1.328	Residue on evaporation .....	≤ 5 ppm	at 240 nm .....	≥ 50 %		
Refractive index at 20°C .....	1.4214 ÷ 1.4274	Alkalinity .....	≤ 0.0002 meq/g	at 260 nm .....	≥ 98 %		

Code	Size	Packaging	Notes
463281	2.5 l	Glass bottle	

## Dichloromethane > RS - For preparative HPLC - Stabilized with ethanol

**RS**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.4214 ÷ 1.4274	Residue on evaporation .....	≤ 5 ppm	at 260 nm .....	≥ 98 %
Colour .....	≤ 10 APHA	Boiling point .....	39.3 ÷ 40.3 °C	Assay (GLC) .....	≥ 99.5 %	<b>Filtered at 0.2 µm</b>	
Identity (IR) .....	Positive	Alkalinity (NH <sub>3</sub> ) .....	≤ 5 ppm	<b>Transmittance U.V.</b>			
Density at 20°C .....	1.322 ÷ 1.328	Water (K.F.) .....	≤ 500 ppm	at 240 nm .....	≥ 50 %		

Code	Size	Packaging	Notes
463291	2.5 l	Glass bottle	

## Dichloromethane > RS - ATRASOL - For analysis of volatile traces - Stabilized with amylene

**RS**

Refractive index at 20°C .....	1.422 - 1.426	Chloroform .....	≤ 50 mg/Kg	Stabilizer (Amylene) .....	30 - 60 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	GC-FID. Individ. peak (hexadecane) ..	≤ 5 µg/l
Water content (K.F.) .....	≤ 100 mg/Kg	Non volatile residue .....	≤ 3 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform	<b>Retention time range over toluène</b>	PAH test (according to ISO 17993) ..	Passes test
Colour .....	≤ 10 Hazen	Carbon tetrachloride .....	≤ 20 mg/Kg	GC-ECD. Individual peak (Lindane) ..	≤ 2 ng/l			
Free acid (as HCl) .....	≤ 5 mg/Kg	Assay (GC) .....	≥ 99.95 %					

Code	Size	Packaging	Notes
P02932A16	1 l	Glass bottle	
P02932A21	2.5 l	Glass bottle	

## Dichloromethane > RS - ATRASOL - For analysis of volatile traces - Stabilized with ethanol

**RS**

Refractive index at 20°C .....	1.422 - 1.426	Chloroform .....	≤ 40 mg/Kg	Stabilizer (Ethanol) .....	0.1 - 0.4 % m/m	<b>Retention time trichlorobenzene to mirex</b>	GC-FID. Individ. peak (hexadecane) ..	≤ 5 µg/l
Water content (K.F.) .....	≤ 100 mg/Kg	Non volatile residue .....	≤ 3 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform	<b>Retention time range over toluène</b>	PAH test (according to ISO 17993) ..	Passes test
Colour .....	≤ 10 Hazen	Carbon tetrachloride .....	≤ 20 mg/Kg	GC-ECD. Individual peak (Lindane) ..	≤ 2 ng/l			
Free acid (as HCl) .....	≤ 5 mg/Kg	Assay (GC) (without stabilizer) ..	≥ 99.95 %					

Code	Size	Packaging	Notes
P02932E16	1 l	Glass bottle	
P02932E21	2.5 l	Glass bottle	

## Dichloromethane > RS - PESTIPUR - For pesticide analysis - Stabilized with amylene

**RS**

Description .....	Clear liquid	Assay (GLC) .....	≥ 99.9 %	Free acid (as HCl) .....	≤ 5 mg/kg	Stabilizer (Amylene) .....	30 - 50 mg/Kg
Identification .....	Positive	Water .....	≤ 0.01 %	GC-ECD (Lindane standard) .....	≤ 3 ng/l	PAH test (according to ISO 17993) ..	Passes test
Colour .....	≤ 10 hazen	Not volatile residue .....	≤ 5 mg/kg	GC-NPD (Ethylparathion standard) ..	≤ 3 ng/l		

Code	Size	Packaging	Notes
442291	1 l	Glass bottle	
442292000	2.5 l	Glass bottle	

## Dichloromethane > RS - PESTIPUR - For pesticide analysis - Stabilized with ethanol

**RS**

Refractive index at 20°C..... 1.422 - 1.426	Free acid (as HCl)..... ≤ 5 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	<b>Retention time Atrazin to Coumaphos</b>
Water content (K.F.)..... ≤ 100 mg/Kg	Non volatile residue..... ≤ 5 mg/Kg	GC-NPD. Individual peak (Ethylparathion) ≤ 3 ng/l	PAH test (according to ISO 17993) .. Passes test
Colour..... ≤ 10 Hazen	Assay (GC) (without stabilizer)..... ≥ 99.9 %		
Stabilizer (Ethanol)..... 0.1 - 0.4 % m/m	GC-ECD. Individual peak (Lindane) .. ≤ 3 ng/l		

Code	Size	Packaging	Notes
442261	1 l	Glass bottle	
442262	2.5 l	Glass bottle	

## Dichloromethane > RS - SPECTROSOL - For optical spectroscopy - Stabilized with amylene

**RS**

Description..... Clear colourless liquid	Refractive index at 20°C. 1.4214 ÷ 1.4274	<b>Fluorescence</b>	at 245 nm..... ≥90 %
Colour (APHA)..... ≤10	Boiling point..... 39.6 ÷ 40.1 ° C	at 254 nm..... ≤2 ppb	at 250 nm..... ≥95 %
Water content (K.F.)..... ≤ 100 mg/Kg	Residue on evaporation..... ≤5 ppm	at 365 nm..... ≤2 ppb	at 260 nm..... ≥99 %
Identification (I.R.)..... Positive	Acidity..... ≤0.0005 meq/g	<b>U.V. Transmittance</b>	Amylene..... 20 ÷ 60 ppb
Non volatile residue..... ≤ 5 mg/Kg	Alcalinity..... ≤0.0002 meq/g	at 235 nm..... ≥35 %	
Density at 20° C..... 1.322 ÷ 1.328	Assay (GLC)..... ≥99.9 %	at 240 nm..... ≥70 %	

Code	Size	Packaging	Notes
442371	1 l	Glass bottle	

## Dichloromethane > RS - SPECTROSOL - For optical spectroscopy - Stabilized with ethanol

**RS**

Description..... Clear colourless liquid	Water (K.F.)..... ≤100 ppm	<b>Fluorescence</b>	at 245 nm..... ≥90 %
Colour (APHA)..... ≤10	Residue on evaporation..... ≤5 ppm	at 254 nm..... ≤2 ppb	at 250 nm..... ≥95 %
Identification (I.R.)..... Positive	Acidity..... ≤0.0005 meq/g	at 365 nm..... ≤2 ppb	at 260 nm..... ≥99 %
Density at 20° C..... 1.322 ÷ 1.328	Alcalinity..... ≤0.0002 meq/g	<b>U.V. Transmittance</b>	Stabilizer (Ethanol)..... 0.1 ÷ 0.4 %
Refractive index at 20°C. 1.4214 ÷ 1.4274	Assay (GLC)..... ≥99.9 %	at 235 nm..... ≥35 %	
Boiling point..... 39.6 ÷ 40.1 ° C		at 240 nm..... ≥70 %	

Code	Size	Packaging	Notes
463025	1 l	Glass bottle	

## Dichloromethane > RS - Anhydrous - For analysis - Stabilized with amylene

**RS**

Refractive index at 20°C..... 1.422 - 1.426	Colour..... ≤ 10 Hazen	Free acid (as HCl)..... ≤ 3 mg/Kg
Water content (K.F.)..... ≤ 50 mg/Kg	Assay (GC)..... ≥ 99.95 %	Carbon tetrachloride..... ≤ 20 mg/Kg
Non volatile residue..... ≤ 10 mg/Kg	Stabilizer (Amylene)..... 30 - 60 mg/Kg	Chloroform..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P02910A10	200 ml	Bottle with septum	
P02910AT10	200 ml	Bottle with septum	On molecular sieves 4A
P02910A16	1 l	Glass bottle	
P02910AT16	1 l	Glass bottle	On molecular sieves 4A
P02910A21	2.5 l	Glass bottle	

## Dichloromethane > RS - Anhydrous - For analysis - Stabilized with ethanol

**RS**

Refractive index at 20°C..... 1.422 - 1.426	Colour..... ≤ 10 Hazen	Free acid (as HCl)..... ≤ 3 mg/Kg
Water content (K.F.)..... ≤ 50 mg/Kg	Assay (GC) (without stabilizer)..... ≥ 99.95 %	Carbon tetrachloride..... ≤ 20 mg/Kg
Non volatile residue..... ≤ 10 mg/Kg	Stabilizer (Ethanol)..... 0.1 - 0.4 % m/m	Chloroform..... ≤ 40 mg/Kg

Code	Size	Packaging	Notes
P02910E10	200 ml	Bottle with septum	
P02910E16	1 l	Glass bottle	
P02910E21	2.5 l	Glass bottle	

## Dichloromethane > RS - RSE - For electronic use - Stabilized with amylene

**RS**

Description .....	Clear liquid	Phosphate .....	≤0.5 ppm	Cr .....	≤0.01 ppm	Pt .....	≤0.05 ppm
Colour (APHA) .....	≤10	Heavy metals (Pb) .....	≤0.1 ppm	Cu .....	≤0.01 ppm	Sb .....	≤0.01 ppm
Identification .....	Positive	Ag .....	≤0.02 ppm	Fe .....	≤0.1 ppm	Sn .....	≤0.02 ppm
Density at 20° C .....	1.322 ÷ 1.328	Al .....	≤0.05 ppm	Ga .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Boiling point .....	39.6 ÷ 40.1 ° C	As .....	≤0.01 ppm	In .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Resistivity .....	≥1 Mohm.cm	Au .....	≤0.05 ppm	K .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Assay (GLC) .....	≥99.5 %	Ba .....	≤0.01 ppm	Li .....	≤0.02 ppm	V .....	≤0.05 ppm
Water (K.F.) .....	≤100 ppm	B .....	≤0.1 ppm	Mg .....	≤0.1 ppm	Zn .....	≤0.05 ppm
Residue on evaporation .....	≤5 ppm	Be .....	≤0.02 ppm	Mn .....	≤0.01 ppm	Zr .....	≤0.05 ppm
Acidity (HCl) .....	≤10 ppm	Bi .....	≤0.02 ppm	Mo .....	≤0.05 ppm	Stabilized with amylene .....	20 ÷ 60 ppm
Alcalinity (NH3) .....	≤1 ppm	Ca .....	≤0.2 ppm	Na .....	≤0.2 ppm		
Chloride .....	≤0.5 ppm	Cd .....	≤0.01 ppm	Ni .....	≤0.01 ppm		
Free chlorine .....	≤0.2 ppm	Co .....	≤0.01 ppm	Pb .....	≤0.02 ppm		

Code	Size	Packaging	Notes
463162	1 l	Glass bottle	
463161	2.5 l	Glass bottle	

## Dichloromethane > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP - Stabilized with amylene

**RPE**

Description .....	Clear liquid	Boiling point .....	39.6 ÷ 40.1 ° C	Ba .....	≤0.1 ppm	Mn .....	≤0.02 ppm
Colour (APHA) .....	≤10	Water (K.F.) .....	≤100 ppm	Ca .....	≤0.5 ppm	Ni .....	≤0.02 ppm
Identification (I.R.) .....	Conform	Residue on evaporation .....	≤10 ppm	Cd .....	≤0.05 ppm	Pb .....	≤0.1 ppm
Ready carbonizable substances .....	Conform	Acidity .....	≤0.0003 meq/g	Co .....	≤0.02 ppm	Sn .....	≤0.1 ppm
Alcohol miscibility .....	Complete	Amylene .....	20 ÷ 60 ppm	Cr .....	≤0.02 ppm	Zn .....	≤0.1 ppm
Diethyl ether miscib. ....	Complete	Chloride .....	≤1 ppm	Cu .....	≤0.02 ppm	Assay (GLC) .....	≥99.9 %
Density at 20° C .....	1.322 ÷ 1.328	Al .....	≤0.5 ppm	Fe .....	≤0.1 ppm	Free halogens .....	Conform
Refractive index at 20° C .....	1.4214 ÷ 1.4274	B .....	≤0.02 ppm	Mg .....	≤0.1 ppm		

Code	Size	Packaging	Notes
463311	1 l	Glass bottle	
463314	2.5 l	Glass bottle	
463319	5 l	Plastic tank	
524319	10 l	Plastic tank	
463315	35 kg	Metal drum	
524314	200 l	Metal drum	

## Dichloromethane > RPE - For analysis - ACS - Stabilized with ethanol

**RPE**

Description .....	Clear colourless liquid	Free chlorine .....	≤ 0.1 ppm	Ba (Barium) .....	≤ 0.1 ppm	Mn (manganese) .....	≤0.02 ppm
Color .....	≤10 APHA	Identity (IR) .....	Positive	Ca (Calcium) .....	≤ 0.5 ppm	Ni (Nickel) .....	≤ 0.02 ppm
Density at 20° C .....	1.322 ÷ 1.328	Read. carboniz. subs. ....	Conform	Cd (Cadmium) .....	≤ 0.05 ppm	Pb (Lead) .....	≤ 0.1 ppm
Refractive index at 20° C .....	1.4214 ÷ 1.4274	Residue on evaporation .....	≤ 10 ppm	Co (Cobalt) .....	≤ 0.02 ppm	Sn (Tin) .....	≤0.1 ppm
Boiling point .....	39.3 ÷ 40.3 ° C	Water (K.F.) .....	≤ 100 ppm	Cr (Chromium) .....	≤ 0.02 ppm	Zn (Zinc) .....	≤ 0.1 ppm
Acidity (Hydrochloric ac.) .....	≤ 3 ppm	Assay (GLC) .....	≥ 99.9 %	Cu (Copper) .....	≤ 0.02 ppm		
Chloride (Cl) .....	≤ 1 ppm	Al (Aluminium) .....	≤ 0.5 ppm	Fe (Iron) .....	≤ 0.1 ppm		
Ethyl alcohol .....	≤ 0.2 %	B (Boron) .....	≤ 0.02 ppm	Mg (magnesium) .....	≤0.1 ppm		

Code	Size	Packaging	Notes
463001	1 l	Glass bottle	
463003	2.5 l	Glass bottle	
463002	5 l	Plastic tank	
463008	250 kg	Metal drum	

## Dichloromethane > ERBApharm - According to pharmacopoeia : NF - Stabilized with ethanol

**ERBApharm**

Description .....	Conform	Residue on evaporation .....	≤ 20 ppm	Free chlorine .....	Conform USP-NF	Ethanol .....	# 0,2 %
Identification (I.R.) .....	Positive	Acidity .....	≤ 10 ppm	Water (K.F.) .....	≤ 200 ppm		
Density d25/25 .....	1,318 ÷ 1,322	Heavy metals (Pb) .....	≤ 1 ppm	Assay (GLC) .....	≥ 99.0 %		

Code	Size	Packaging	Notes
354501	1 l	Glass bottle	

## Dichloromethane > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF - Stabilized with amylene

**ERBApharm**

Description .....	Clear colourless liquid	Density at 20°C .....	1.320 ÷ 1.332	Residue on evaporation .....	≤ 20 ppm	Amylene .....	20 ÷ 60 ppm
Colour .....	≤ 10 APHA	Density at 25°C .....	1.318 ÷ 1.322	Heavy metals (Pb).....	≤ 1 ppm	Carbon tetrachloride.....	≤ 10 ppm (v/v)
Identification .....	Positive	Refractive index at 20°C.....	1.423 - 1.425	Free chlorine.....	Conform USP-NF	Chloroforme.....	≤ 50 ppm (v/v)
Appearance of solution .....	Clear colourless liquid Ph. Eur.	Acidity .....	Pass test Ph.Eur.	Related substances (CPG) .....	≤ 0.1 %	Origin (BSE/TSE).....	Synthesis
		Water (K.F.).....	≤ 200 ppm	Assay (GLC) .....	≥ 99.9 %		

Code	Size	Packaging	Notes
337331	1 l	Glass bottle	
337333	2.5 l	Glass bottle	
337335	25 l	Metal drum	
337337	200 l	Metal drum	

## Dichloromethane > ERBApharm - According to pharmacopoeia : Ph.Eur. - Stabilized with ethanol

**ERBApharm**

Description .....	Conform Ph.Eur.	Density at 20°C .....	1.320 ÷ 1.332	Free chlorine.....	Conform Ph.Eur.	Amylene .....	≤ 0.03 %
Colour .....	≤ 10 APHA	Indice di rifraz. ....	1.423 ÷ 1.425	Heavy metals (Pb).....	≤ 1 ppm	Carbon tetrachloride.....	≤ 10 ppm (v/v)
Identification .....	Positive Ph.Eur.	Acidity .....	Conform Ph.Eur.	Related compounds.....	≤ 0.1 %	Chloroforme.....	≤ 50 ppm (v/v)
Appearance of solution .....	Clear colourless liquid Ph. Eur.	Residue on evaporation .....	≤ 10 ppm	Assay (GLC) .....	≥ 99.95 %		
		Water (K.F.).....	≤ 100 ppm	Ethanol .....	≤ 2.0 %		

Code	Size	Packaging	Notes
525320	2.5 l	Glass bottle	
525321	200 l	Metal drum	

## Dichloromethane > RE - Pure - stabilized with amylene

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.4194 ÷ 1.4294	Residue on evaporation .....	≤ 20 ppm	Amylene .....	20 ÷ 60 ppm
Colour .....	≤ 10 APHA	Boiling point.....	39.1 ÷ 40.6 °C	Water (K.F.).....	≤ 200 ppm		
Density at 20°C .....	1.320 ÷ 1.330	Acidity (HCl) .....	≤ 10 ppm	Assay (GLC) .....	≥ 99.8 %		

Code	Size	Packaging	Notes
528461	5 l	Plastic tank	
528464	10 l	Plastic tank	
528463	25 l	Metal drum	
528462	200 l	Metal drum	

## Dichloromethane > RE - Pure - stabilized with ethanol

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.4194 ÷ 1.4294	Residue on evaporation .....	≤ 20 ppm	Assay (GLC) .....	≥ 99.8 %
Color .....	< 10 APHA	Boiling point.....	39.3 ÷ 40.3 °C	Water (K.F.).....	≤ 100 ppm	Ethanol (stab) .....	~0.2 %
Density at 20°C .....	1.32 ÷ 1.33	Acidity (hydrochloric acid) .....	≤ 5 ppm	Alcohol and ether miscibility.....	Complete		

Code	Size	Packaging	Notes
528377	2.5 l	Glass bottle	
337315	5 l	Metal tank	
528372	5 l	Plastic tank	
528379	10 l	Plastic tank	
528370	25 l	Metal drum	
528371	200 l	Metal drum	


## Dichloromethane > RE - Pure - Stabilized with cyclohexane

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.4194 ÷ 1.4294	Water (K.F.).....	≤ 500 ppm	Other impurities .....	≤ 0.5 %
Colour .....	≤ 10 APHA	Boiling point.....	39.0 ÷ 40.5 °C	Methyl alcohol.....	≤ 500 ppm	Cyclohexane .....	0.0165 ÷ 0.0660 % (v/v)
Assay (GLC) .....	≥ 99.5 %	Acidity .....	≤ 1 %	Ethyl alcohol .....	≤ 500 ppm		
Density at 20°C .....	1.320 ÷ 1.330	Residue on evaporation .....	≤ 5 ppm	Chloroform.....	≤ 1 %		

Code	Size	Packaging	Notes
508370	1 l	Glass bottle	
508374	5 l	Plastic tank	


**Dichloromethane acidified with 1% hydrochloric acid** Synonym: *Methylene chloride*  
 Dichlorometano acidificato con acido cloridrico 1% • Dichlorométhane acidifié avec 1% d'acide chlorhydrique • Dichlorometano acidificado con ácido clorhídrico 1%

<chem>CH2Cl2</chem> Molecular Weight: 84,93 CAS: 75-09-2 EEC-N: 200-838-9	<b>Classification transport</b> ONU: 1593 Transport Hazard class: 6.1 Packing group III	 <b>Warning</b> H315-H319-H351-H335-H336-H373 P264-P271-P304+P340-P305+P351+P338-P308+P313-P312a
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**Dichloromethane acidified with 1% hydrochloric acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1** RS

Code	Size	Packaging	Notes
611055901	100 ml	Glass bottle	Ref Ph.Eur 1055901

**Dichloromethane-d2** Synonym: *Dideuteromethylenechloride*  
 Dichlorometano-d2 • Dichlorométhane-d2 • Diclorometano-d2

<chem>CD2Cl2</chem> Molecular Weight: 86,95 CAS: 1665-00-5 EEC-N: 216-776-0	<b>Classification transport</b> ONU: 1593 Transport Hazard class: 6.1 Packing group III	 <b>Warning</b> H351 P280-P201-P202-P308+P313-P405-P501a
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**Dichloromethane-d2 > RS - For NMR - min 99.6%** RS

Code	Size	Packaging	Notes
P5330	10 x 0.6 ml	Glass ampoule	
P5339	10 x 0.75 ml	Glass ampoule	
P5334A	10 ml	Glass ampoule	
P5335	25 ml	Glass bottle	

**2,6-Dichlorophenolindophenol sodium salt** Synonym: *2,6-Dichloro-N-(4-hydroxyphenyl)-1,4-benzoquinoneimine sodium salt*  
 2,6-Diclorofenoloindofenolo sale sodico • 2,6-Dichlorophénolindophénol sel de sodium • 2,6-Diclorofenol-indofenol sal sódica

<chem>C12H7Cl2NO2.Na</chem> Molecular Weight: 326,09 CAS: 620-45-1 EEC-N: 210-640-4	
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**2,6-Dichlorophenolindophenol sodium salt > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP** RPE

Description ..... Dark green powder    Identification ..... Positive    Colouring interferences..... Conform    Loss on drying 120° C..... ≤12 %

Code	Size	Packaging	Notes
442508	5 g	Glass bottle	
442509	25 g	Glass bottle	

**For the determination of ascorbic acid**

**2,6-Dichloroquinone-4-chlorimide** Synonym: *Gibb's reagent*  
*N-2,6-trichloro-p-benzoquinoneimine*  
 2,6-Dicloroquinone-4-clorimide • 2,6-Dichloroquinone-4-chloroimide • 2,6-Dicloroquinona-4-clorimida

CIN:CCH:CCICOCCHI:CH Molecular Weight: 210,45 CAS: 101-38-2 EEC-N: 202-937-2	<b>Classification transport</b> ONU: 3224 Transport Hazard class: 4.1 Packing group II	 <b>Warning</b> H242-H315-H319-H335 P210-P264-P271-P304+P340-P305+P351+P338-P410
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**2,6-Dichloroquinone-4-chlorimide > RPE - For analysis** RPE

Description ..... Yellow orange powder    Melting point..... 65.0 ÷ 67.0 ° C    Phenol sensitivity..... ≥1 µg/ml  
 Identification ..... Positive    Residue on ignition..... ≤0.1 %    Assay (argentimetric)..... ≥98 %

Code	Size	Packaging	Notes
442458	5 g	Glass bottle	
442459	25 g	Glass bottle	

**For spectrophotometric determination of vitamin B6**





## n,n'-Dicyclohexylcarbodiimide

n,n'-Dicicloesilcarbodiimide • n,n'-Dicyclohexylcarbodiimide • n,n'-Diciclohexilcarbodiimida

Synonym:  
DCC

$C_6H_{11}N_2C_6H_{11}$   
Molecular Weight: 206,33  
CAS: 538-75-0  
EEC-N: 208-704-1

**Classification transport**  
ONU: 1759  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H311-H318-H317  
P264-P261-P280h-P280i-P305+P351+P338-P330

### n,n'-Dicyclohexylcarbodiimide > RPE - For analysis

**RPE**

Description ..... Whitish or yellowish crystals      Melting point ..... 34.0 ÷ 37.0 ° C      Assay (GC) ..... ≥ 99.0 %  
Identification ..... Positive      Residue on ignition ..... ≤100 ppm

Code	Size	Packaging	Notes
442175	10 g	Glass bottle	



## Diethanolamine

Dietanolamina • Diéthanolamine • Dietanolamina

Synonym:  
2,2'-Iminodiethanol  
Bis(2-hydroxyethyl)amine

$(CH_2OHCH_2)_2NH$   
Molecular Weight: 105,14  
CAS: 111-42-2  
EEC-N: 203-868-0



**Danger**  
H302-H315-H318-H373  
P264-P260-P305+P351+P338-P314-P330-P332+P313

### Diethanolamine > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Refract. index at 30° C ... 1.4723 ÷ 1.4783      Monoethanolamine ..... ≤0.5 %      Assay (alkalimetric) ..... ≥99 %  
Identification ..... Positive      Melting point ..... 27.8 ÷ 28.3 ° C      Residue on ignition ..... ≤50 ppm      Assay (GLC) ..... ≥99 %  
Density at 30° C ..... 1.085 ÷ 1.091      Water (K.F) ..... ≤0.5 %      Triethanolamine ..... ≤0.5 %

Code	Size	Packaging	Notes
442554	100 g	Glass bottle	
442557	1 kg	Glass bottle	

### Diethanolamine > ERBApharm - According to pharmacopoeia : USP-NF

**ERBApharm**

Description ..... Clear colourless liquid      Refract. index at 30° C ..... 1.473 ÷ 1.476      Triethanolamine ..... ≤1.0 %      Origin (BSE/TSE) ..... Synthesis  
Identification ..... Positive      Water (K.F) ..... ≤0,15 %      Assay (alkalimetric) ..... 98,5÷101,0 %      Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
337801	220 kg	Metal drum	



## Diethylamine

Dietilamina • Diéthylamine • Dietilamina

$(C_2H_5)_2NH$   
Molecular Weight: 73,14  
CAS: 109-89-7  
EEC-N: 203-716-3

**Classification transport**  
ONU: 1154  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H311-H332-H314-H335  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

### Diethylamine > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Density at 20° C ..... 0.705 ÷ 0.708      Boiling point ..... 55 ÷ 56 ° C      Assay (GLC) ..... ≥99 %  
Identification ..... Positive      Refractive index at 20°C. 1.3840 ÷ 1.3900      Residue on evaporation ..... ≤50 ppm

Code	Size	Packaging	Notes
442756	1 l	Glass bottle	

### Diethylamine > RE - Pure

**RE**

Description ..... Clear colourless liquid      Refractive index at 20°C. 1.3840 ÷ 1.3900      Boiling point ..... 55 ÷ 56 ° C      Density at 20°C ..... 0.705 ÷ 0.708  
Identification ..... Positive      Assay (GLC) ..... ≥ 99 %      Water (K.F) ..... ≤ 0.2 %

Code	Size	Packaging	Notes
337501	1 l	Glass bottle	

**Diethyl carbonate**

Diethylcarbonato • Diéthylcarbonate • Diethylcarbonato

Synonym:  
Boc2O

(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 118,13  
CAS: 105-58-8  
EEC-N: 203-311-1

**Classification transport**  
ONU: 2366  
Transport Hazard class: 3  
Packing group III

**Warning**

H226  
P210-P241-P243-P280a-P303+P361+P353-  
P403+P235

**Diethyl carbonate > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Refractive index at 20°C ..... 1.3820 ÷ 1.3870    Residue on evaporation ..... ≤20 ppm  
Identification ..... Positive    Boiling point ..... 125.3 ÷ 126.8 °C    Chloride ..... ≤5 ppm  
Density at 20° C ..... 0.971 ÷ 0.979    Water (K.F) ..... ≤500 ppm    Assay (GLC) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
443056	1 l	Glass bottle	

**Diethylene glycol**

Glicol dietilénico • Glycol diéthylénique • Glicol dietilénico

Synonym:  
2,2'-Oxydiethanol  
2-Hydroxyethyl ether

(HOCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>O  
Molecular Weight: 106,12  
CAS: 111-46-6  
EEC-N: 203-872-2

**Warning**

H302  
P264-P270-P330-P301+P312a-P501a

**Diethylene glycol > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.115 ÷ 1.119    Boiling point ..... 240 ÷ 252 °C    Assay (GLC) ..... ≥98 %  
Identification ..... Positive    Refractive index at 20°C. 1.4450 ÷ 1.4500    Water (K.F) ..... ≤0.3 %

Code	Size	Packaging	Notes
443255	1 l	Glass bottle	
443253	2.5 l	Glass bottle	
443252	25 kg	Drum	

**Hygroscopic product. Store well sealed in a dry place****Diethylene glycol > RE - Pure****RE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.112 ÷ 1.122    Boiling point ..... 240 ÷ 252 °C    Water ..... ≤0.3 %  
Identification ..... Positive    Refractive index at 20°C. 1.4425 ÷ 1.4525    Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
346301	1 l	Glass bottle	
346303	2.5 l	Glass bottle	
346304	30 kg	Metal drum	

**Diethylene glycol butyl ether ▶ 2-(2-Butoxyethoxy)ethanol****Diethylene glycol dimethyl ether**

Glicol dietilénico dimetilètere • Glycol diéthylénique diméthyléther • Glicol dietilénico dimetiléter

Synonym:  
Diglyme  
2-Methoxyethyl ester

(CH<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>O  
Molecular Weight: 134,17  
CAS: 111-96-6  
EEC-N: 203-924-4

**Danger**

H226-H360FD-HEU019-HA26  
P210-P241-P243-P280a-P303+P361+P353-  
P403+P235

**Diethylene glycol dimethyl ether > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 0.942 ÷ 0.950    Alkalinity (NH<sub>3</sub>) ..... ≤0.85 ppm    Fe ..... ≤2 ppm  
Identification ..... Positive    Refractive index at 20°C. 1.4056 ÷ 1.4096    Carbonyl Compounds (CO) ..... ≤500 ppm    Assay (GLC) ..... ≥99 %  
Water miscibility ..... Conform    Boiling point ..... 160.0 ÷ 162.0 °C    Heavy metals (Pb) ..... ≤2 ppm  
Benzene miscibility ..... Complete    Water (K.F) ..... ≤0.1 %    Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... ≤250 ppm  
Diethyl ether miscib. .... Complete    Acidity (acetic acid) ..... ≤600 ppm    Residue on ignition ..... ≤20 ppm

Code	Size	Packaging	Notes
453861	1 l	Glass bottle	

**Diethylene glycol dimethyl ether > RE - Pure**

RE

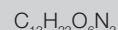
Refractive index at 20°C ..... 1.406 - 1.41    Water content (K.F.) ..... ≤ 500 mg/Kg    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99.8 %

Code	Size	Packaging	Notes
P0410228	5 l	Metal tank	
P0410248	25 l	Metal drum	

**Diethylene oxide ► 1,4-Dioxane****Diethylenetriaminepentacetic acid**

Acido diètilentriaminopentacetico • Acide diéthylènetriaminopentacétique • Acido diètilentriaminopentacético

Synonym:

*(Carboxymethylimino)bis(ethylenenitrilo)tetraacetic acid**Pentetic acid*

Molecular Weight: 393,35

CAS: 67-43-6

EEC-N: 200-652-8

**Classification transport**

ONU: 3077

Transport Hazard class: 9

Packing group III

**Danger**

H301-H319-H411

P264-P273-P280-P305+P351+P338-

P301+P310a-P330

**Diethylenetriaminepentacetic acid > RPE - For analysis**

RPE

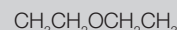
Description ..... White crystalline powder    Identification ..... Positive    Assay (acidimetric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
405192	250 g	Glass bottle	

**For the preparation of complexes: Na<sub>2</sub>Fe(DPTA), Na<sub>2</sub>[Cr(DPTA)] et H<sub>2</sub>[Gd(DPTA)]****Diethyl ether**

Diètiletere • Ether éthylique • Diètileter

Synonym:

*Ethyl ether*

Molecular Weight: 74,12

CAS: 60-29-7

EEC-N: 200-467-2

**Classification transport**

ONU: 1155

Transport Hazard class: 3

Packing group I

**Danger**

H224-H302-H336-HEU019-HEU066

P210-P241-P264-P303+P361+P353-P304+P340-

P403+P235

**Diethyl ether > RS - For HPLC - Isocratic grade - Not stabilized**

RS

Clear, colourless liq. appearance ..... Conform    Water content (K.F.) ..... ≤ 100 mg/Kg    UV transmittance at 220 nm ..... ≥ 10 %    UV transmittance at 300 nm ..... ≥ 98 %

Identification ..... Conform    Free acid (as CH<sub>3</sub>COOH) ..... ≤ 30 mg/Kg    UV transmittance at 230 nm ..... ≥ 45 %    Assay (GC) ..... ≥ 99.7 %

Colour ..... ≤ 10 Apha    Peroxides (as H<sub>2</sub>O<sub>2</sub>) ..... ≤ 60 mg/Kg    UV transmittance at 250 nm ..... ≥ 75 %

Refractive index at 20°C ..... 1.35 - 1.354    Non volatile residue ..... ≤ 5 mg/Kg    UV transmittance at 280 nm ..... ≥ 92 %

Code	Size	Packaging	Notes
412671	1 l	Glass bottle	
412672	2.5 l	Glass bottle	

**Diethyl ether > RS - PESTIPUR - For pesticide analysis - Not stabilized**

RS

Description ..... Clear liquid    Water ..... ≤ 0.02 %    Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... ≤ 60 ppm

Colour ..... ≤ 10 hazen    Acidity (acetic acid) ..... ≤ 30 ppm    GC-ECD (Lindano) ..... ≤ 3 ng/l

Identification ..... Positive    Not volatile residue ..... ≤ 5 ppm    Assay (GLC) ..... ≥ 99.7 %

Code	Size	Packaging	Notes
447651	1 l	Glass bottle	
447652	2.5 l	Glass bottle	

**Diethyl ether > RS - SPECTROSOL - For optical spectroscopy - Not stabilized**

RS

Description ..... Clear liquid    Peroxides (as H<sub>2</sub>O<sub>2</sub>) ..... ≤ 60 mg/Kg    Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... ≤ 60 ppm    at 280 nm ..... ≥ 92 %

Refractive index at 20°C ..... 1.35 - 1.354    Boiling point ..... 34.4 ÷ 34.9 ° C    Assay (GC) ..... ≥ 99.7 %    at 300 nm ..... ≥ 98 %

Colour (APHA) ..... ≤ 10    Water (K.F.) ..... ≤ 100 ppm    **U.V. Transmittance**

Water content (K.F.) ..... ≤ 100 mg/Kg    Residue on evaporation ..... ≤ 5 ppm    at 220 nm ..... ≥ 10 %

Identification ..... Positive    Acidity ..... ≤ 0.0005 meq/g    at 230 nm ..... ≥ 45 %

Density at 20° C ..... 0.712 ÷ 0.714    Alkalinity ..... ≤ 0.0002 meq/g    at 250 nm ..... ≥ 75 %

Code	Size	Packaging	Notes
447593	1 l	Glass bottle	

**Diethyl ether > RS - Anhydrous - For analysis - Stabilized with BHT****RS**

Refractive index at 20°C.....	1.35 - 1.354	Assay (GC).....	≥ 99.7 %	Ketone and Aldehyde.....	≤ 100 mg/Kg	Matter darkened by H2SO4.....	≤ 10 Hazen
Water content (K.F.).....	≤ 50 mg/Kg	Peroxides (as H2O2).....	≤ 1 mg/Kg	Methanol.....	≤ 200 mg/Kg	Non volatile residue (without stab.)	≤ 10 mg/Kg
Colour.....	≤ 10 Hazen	Free acid (as CH3COOH).....	≤ 30 mg/Kg	Stabilizer (ionol).....	5 - 7 mg/Kg		

Code	Size	Packaging	Notes
P0441010	200 ml	Bottle with septum	
P04410T10	200 ml	Bottle with septum	On molecular sieves 4A, Water content < 20ppm
P0441008	1 l	Aluminium can	
P0441016	1 l	Glass bottle	
P04410T16	1 l	Glass bottle	On molecular sieves 4A, Water content < 20ppm
P0441021	2.5 l	Glass bottle	

**Diethyl ether > RPE - For analysis - ACS - Not stabilized****RPE**

Description.....	Clear liquid	Residue on evaporation.....	≤10 ppm	Carbonyl Compounds (CO).....	≤10 ppm
Colour (APHA).....	≤10	Acidity.....	≤0.0002 meq/g	Peroxides (H2O2).....	≤1 ppm
Water (K.F.).....	≤300 ppm	Ethyl alcohol.....	Conform	Assay (GLC).....	≥99.0 %

Code	Size	Packaging	Notes
447534	1 l	Glass bottle	
447539	5 l	Aluminium can	
447532	20 kg	Aluminium can	
447531	140 kg	Metal drum	

**Diethyl ether > RPE - For analysis - ACS - Stabilized with BHT****RPE**

Description.....	Clear liquid	Residue on evaporation.....	≤10 ppm	Al.....	≤0.5 ppm	Ni.....	≤0.02 ppm
Colour (APHA).....	≤10	Acetone.....	≤50 ppm	Ca.....	≤0.5 ppm	Pb.....	≤0.05 ppm
Identification (I.R.).....	Conform	Acidity (acetic acid).....	≤5 ppm	Cd.....	≤0.05 ppm	Sn.....	≤0.1 ppm
Foreign odours.....	Conform	Alcalinity (NH3).....	≤1.4 ppm	Co.....	≤0.02 ppm	Zn.....	≤0.1 ppm
Ready carbonizable substances.....	Conform	Ethyl alcohol.....	≤100 ppm	Cr.....	≤0.02 ppm	Assay (GLC).....	≥99.8 %
Density at 20° C.....	0.714 ÷ 0.716	Methyl alcohol.....	≤200 ppm	Cu.....	≤0.02 ppm	<b>Stabilized with about 6 ppm BHT</b>	
Refractive index at 20°C.....	1.35 - 1.354	Carbonyl Compounds (CO).....	≤10 ppm	Fe.....	≤0.1 ppm		
Boiling point.....	34.0 ÷ 35.0 ° C	Heavy metals (Pb).....	≤1 ppm	Mg.....	≤0.1 ppm		
Water (K.F.).....	≤200 ppm	Peroxides (H2O2).....	≤1 ppm	Mn.....	≤0.02 ppm		

Code	Size	Packaging	Notes
447521	1 l	Glass bottle	
447523	2.5 l	Glass bottle	
447522	5 l	Aluminium can	
447525	20 kg	Aluminium can	

**Diethyl ether > ERBApharm - According to pharmacopeia : BP-Ph.Eur. - Not Stabilized****ERBApharm**

Description.....	Clear colourless liquid	Aldehydes.....	Conform Ph.Eur.	Density at 20° C.....	0.714 ÷ 0.716	Non volat.substances.....	≤20 ppm p/v
Identification.....	Positive	Foreign odours.....	Conform Ph.Eur.	Boiling point.....	34.0 ÷ 35.0 ° C		
Acidity.....	Conform Ph.Eur.	Peroxide.....	Conform Ph.Eur.	Water (K.F.).....	≤0.2 %		

Code	Size	Packaging	Notes
340731	40 x 100 g	Glass bottle	

**Diethyl ether > ERBApharm - According to pharmacopeia : BP-Ph.Eur. - Stabilized with BHT****ERBApharm**

Description.....	Clear colourless liquid	Foreign odours.....	Conform Ph.Eur.	Water (K.F.).....	≤2 g/l	Residual solvents (Current ICH).....	Conform
Identification.....	Positive	Peroxide.....	Conform Ph.Eur.	Non volat.substances.....	≤20 ppm p/v		
Acidity.....	Conform Ph.Eur.	Density at 20° C.....	0.714 ÷ 0.716	Assay (CPG).....	≥ 99.5 %		
Aldehydes.....	Conform Ph.Eur.	Boiling point.....	34.0 ÷ 35.0 ° C	Origin (BSE/TSE).....	Synthesis		

Code	Size	Packaging	Notes
340751	1 l	Glass bottle	
340752	20 kg	Aluminium can	
340759	140 kg	Metal drum	

**Diethyl ether > RE - Pure - Stabilized with BHT**

RE

Description .....	Clear colourless liquid	Density at 20° C .....	0.710 ÷ 0.716	Residue on evaporation .....	≤20 ppm	Assay (GLC) .....	≥99.5 %
Density at 20°C .....	0.710 ÷ 0.716	Boiling point.....	34.1 ÷ 35.1 ° C	Acidity (acetic acid).....	≤20 ppm	Stabilized with BHT.....	5 ÷ 7 ppm
Identification .....	Positive	Water (K.F.) .....	≤300 ppm	Peroxyde (H2O2) .....	≤ 1 ppm		

Code	Size	Packaging	Notes
528275	5 l	Aluminium can	
340762	20 kg	Aluminium can	
528276	25 l	Metal drum	
340765	140 kg	Metal drum	

**n,n-Diethyl-p-phenylenediamine sulfate**

p-N,N-Dietilfenilendiammina solfato • n,n'-Diéthyl-p-phénylènediamine sulfate • p-N,N-Dietilfenilendiamonio solfato

Synonym:  
4-Amino-N,N-diethylaniline sulfate salt

NH <sub>2</sub> C <sub>6</sub> H <sub>4</sub> N(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> ·H <sub>2</sub> SO <sub>4</sub>	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 262,33	ONU: 2811		H301
CAS: 6283-63-2	Transport Hazard class: 6.1		P264-P270-P301+P310a-P330-P321-P405
EEC-N: 228-500-6	Packing group III		

**n,n-Diethyl-p-phenylenediamine sulfate > RPE - For analysis**

RPE

Description .....	White crystalline powder	Loss on drying .....	≤1 %	Residue on ignition .....	≤0.1 %	Assay (oxidimetric) .....	≥99 %
Identification .....	Positive	Chloride .....	≤200 ppm	Fe .....	≤200 ppm		

Code	Size	Packaging	Notes
443341	100 g	Plastic bottle	

**n,n-Diethyl-p-phenylenediamine sulfate > RE - Pure**

RE

Description .....	White crystalline powder or colourless or light brown	Identification .....	Positive	Assay (oxidimetric) .....	≥99 %
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Code	Size	Packaging	Notes
338124	100 g	Plastic bottle	
338121	1 kg	Plastic bottle	

**Diethyl phthalate**

Dietilftalato • Diéthyle phtalate • Dietil ftalato

C<sub>8</sub>H<sub>4</sub>(COOC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>  
Molecular Weight: 222,24  
CAS: 84-66-2  
EEC-N: 201-550-6

**Diethyl phthalate > RPE - For analysis**

RPE

Description .....	Clear colourless liquid	Density at 20° C .....	1.118 ÷ 1.121	Water (K.F.) .....	≤0.1 %	Heavy metals (Pb).....	≤5 ppm
Identification .....	Positive	Refractive index at 20° C.....	1.500 ÷ 1.505	Residue on ignition .....	≤100 ppm	Assay (GLC) .....	≥99 %

Code	Size	Packaging	Notes
443404	1 l	Glass bottle	
443402	10 l	Plastic tank	

**Diethyl phthalate > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.-JPE**

ERBApharm

Description .....	Clear colourless, very slightly yellow liq.	Appearance .....	Conform Ph.Eur.	Density at 20°C .....	1.118 - 1.122 NF	Heavy metals (Pb).....	≤ 20 ppm
Identification (IR).....	Positive	Acidity (ml NaOH 0.1M) .....	≤ 0.1 ml	Sulphated ash.....	≤0.02 %	As .....	≤ 2 ppm
Refractive index at 20°C.....	1.500 ÷ 1.504	Related substances(GLC).....	Conform Ph.Eur.	Assay (saponification)99.0 - 101.0 % (m/m)		Residual solvents (Current ICH).....	Conform
		Density (d20/20) .....	1.118 - 1.121 Ph.Eur.	Origin (BSE/TSE).....	Synthesis		

Code	Size	Packaging	Notes
338112	1 l	Glass bottle	
338115	2.5 l	Glass bottle	
338113	30 kg	Metal drum	
338114	200 l		



## Differentiator for kit Gram-Hucker

Differenziatore per kit Gram-Hucker • Différenciateur pour kit de Gram-Hucker • Diferenciador para kit Gram-Hucker

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

## Differentiator for kit Gram-Hucker > RS - For bacteriology

RS

Description ..... Liquido incolore Identification ..... Positive

Code	Size	Packaging	Notes
444131	250 ml	Glass bottle	



## Digitonin

Digitonina • Digitonine • Digitonina

Synonym:

*Digitin*



Molecular Weight: 1229,34

CAS: 11024-24-1

EEC-N: 234-255-6

### Classification transport

ONU: 1544  
Transport Hazard class: 6.1  
Packing group I



### Danger

H301-H373  
P264-P260-P270-P301+P310a-P314-P330

## Digitonin > RPE - For analysis

RPE

Description ..... White crystalline powder Water (K.F.) ..... ≤ 6 % Potere rotat. spec. (C=10; CH<sub>3</sub>COOH 75%) ..... -47 ÷ -49 °  
Identification ..... Positive Residue on calcination ..... ≤ 0.3 % (s.s.)

Code	Size	Packaging	Notes
444207	1 g	Glass bottle	
444208	25 g	Glass bottle	

## Diglyme ► Diethylene glycol dimethyl ether



## Diisopropylamine

Diisopropilammina • Diisopropylamine • Diisopropilamina

Synonym:

*DIPA*



Molecular Weight: 101,19

CAS: 108-18-9

EEC-N: 203-558-5

### Classification transport

ONU: 1158  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H302-H331-H314-H335  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

## Diisopropylamine > RPE - For analysis

RPE

Description ..... Clear liquid Colour ..... ≤ 10 APHA Water ..... ≤ 0.2 %  
Identification ..... Positive Refractive index at 20°C ..... 1.3910 ÷ 1.3930 Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
445981	250 ml	Glass bottle	

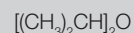


## Diisopropylether

Diisopropiletere • Ether isopropilique • Eter di-isopropilico

Synonym:

*Isopropyl ether*



Molecular Weight: 102,18

CAS: 108-20-3

EEC-N: 203-560-6

### Classification transport

ONU: 1159  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H336-HEU019-HEU066  
P210-P241-P243-P303+P361+P353-P304+P340-  
P403+P235

## Diisopropylether > RS - Anhydrous - For analysis

RS

Appearance ..... Clear colourless liquid Water content (K.F.) ..... ≤ 50 mg/Kg Peroxides (as H<sub>2</sub>O<sub>2</sub>) ..... ≤ 10 mg/Kg Free acid (as CH<sub>3</sub>COOH) ..... ≤ 10 mg/Kg  
Refractive index at 20°C ..... 1.366 - 1.370 Colour ..... ≤ 10 Hazen Assay (GC) ..... ≥ 99.0 % Non volatile residue (without stab.) ≤ 10 mg/  
Identification (IR) ..... Conform Density d<sub>20/4</sub> ..... 0.722 - 0.726 Stabilizer (iono) ..... 2 - 15 mg/Kg Kg

Code	Size	Packaging	Notes
P0431016	1 l	Glass bottle	

**Diisopropylether > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Chloroform miscibility ..... Complete    Boiling point ..... 66.5 ÷ 69.5 °C    Assay (GLC) ..... ≥98.5 %  
 Identification (I.R.) ..... Conform    Diethyl ether miscib. .... Complete    Water (K.F.) ..... ≤0.1 %  
 Alcohol miscibility ..... Complete    Density at 20° C ..... 0.719 ÷ 0.729    Peroxides (H2O2) ..... ≤5 ppm

Code	Size	Packaging	Notes
447932	1 l	Glass bottle	
447931	2.5 l	Glass bottle	
447933	5 l	Plastic tank	
447935	21 kg	Aluminium can	

**Stabilized with ~10 ppm of BHT****Diisopropylether > RE - Pure****RE**

Appearance ..... Clear colourless liquid    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99.0 %    Non volatile residue (without stab.) ≤ 10 mg/Kg  
 Identification (IR) ..... Conform    Density d20/4 ..... 0.722 - 0.726    Stabilizer (ionol) ..... 2 - 15 mg/Kg  
 Water content (K.F.) ..... ≤ 1000 mg/Kg    Peroxides (as H2O2) ..... ≤ 50 mg/Kg    Free acid (as CH3COOH) ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0430228	5 l	Plastic tank	
P0430240	10 l	Metal tank	
P0430248	25 l	Metal drum	
P0430268	200 l	Metal drum	

**n,n-Diisopropylethylamine**

n,n-Diisopropylethylamine • n,n-Diisopropylethylamine • n,n-Diisopropylethylamine

Synonym:

DIPEA

Ethyl-diisopropylamine

C<sub>8</sub>H<sub>19</sub>N

Molecular Weight: 129,25

CAS: 7087-68-5

EEC-N: 230-392-0

**Classification transport**

ONU: 2733

Transport Hazard class: 3

Packing group II

**Danger**

H225-H302-H314-H412

P210-P241-P264-P273-P301+P330+P331-

P303+P361+P353-P304+P340-P305+P351+P338-

P403+P235

**n,n-Diisopropylethylamine > RE - Pure****RE**

Appearance ..... Clear, colourless to yellowish liquid    Refractive index at 20°C ..... 1.411 - 1.415    Assay (GC) ..... ≥ 99 %  
 Identification ..... Conform    Water content (K.F.) ..... ≤ 2000 mg/Kg

Code	Size	Packaging	Notes
P0400272	200 ml	Bottle with septum	
P0400252	30 l	Plastic tank	

**1,4-Dihydroxybenzene ▶ Hydroquinone****Dimedone**

Dimedone • Dimédon • Dimedona

Synonym:

Methone

(CH<sub>3</sub>)<sub>2</sub>CCH<sub>2</sub>COCH<sub>2</sub>COCH<sub>2</sub>

Molecular Weight: 140,18

CAS: 126-81-8

EEC-N: 204-804-4

**Dimedone > RPE - For analysis****RPE**

Description ..... White crystalline powder    Identification ..... Positive    Melting point ..... 147 ÷ 150 °C    Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
444252	25 g	Glass bottle	

**For the determination of aldehydes**

**1,2-Dimethoxyethane**  
 1,2-Dimetossietano • Glycol éthylique diméthyléther • 1,2-Dimetoxietano

Synonym: Dimethylglycol

C4H10O2  
 Molecular Weight: 90,12  
 CAS: 110-71-4  
 EEC-N: 203-794-9

**Classification transport**  
 ONU: 2252  
 Transport Hazard class: 3  
 Packing group II

**Danger**  
 H225-H332-H360FD-HEU019-HA26  
 P210-P241-P243-P303+P361+P353-P304+P340-P403+P235

### 1,2-Dimethoxyethane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.377 - 1.381    Water content (K.F.) ..... ≤ 200 mg/Kg    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0301010	200 ml	Glass bottle	
P03010T16	1 l	Glass bottle	On molecular sieves 3A

### 1,2-Dimethoxyethane > RE - Pure

RE

Refractive index at 20°C ..... 1.377 - 1.381    Non volatile residue ..... ≤ 50 mg/Kg    Assay (GC) ..... ≥ 99.5 %  
 Water content (K.F.) ..... ≤ 500 mg/Kg    Colour ..... ≤ 10 Hazen    Free acid (as CH3COOH) ..... ≤ 150 mg/Kg

Code	Size	Packaging	Notes
P0300221	2.5 l	Glass bottle	
P0300268	200 l	Metal drum	

**n,n-Dimethylacetamide**  
 n,n-Dimetilacetammide • n,n-Diméthylacétamide • n,n-Dimetilacetamida

CH3CON(CH3)2  
 Molecular Weight: 87,12  
 CAS: 127-19-5  
 EEC-N: 204-826-4

**Danger**  
 H312-H332-H360D-HA26  
 P271-P261-P280h-P304+P340-P308+P313-P312a

### n,n-Dimethylacetamide > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Boiling point ..... 164.0 ÷ 166.0 °C    Chloride ..... ≤10 ppm    Assay (GLC) ..... ≥99.8 %  
 Identification ..... Positive    Water (K.F.) ..... ≤0.05 %    Heavy metals (Pb) ..... ≤5 ppm  
 Density at 20° C ..... 0.940 ÷ 0.946    Residue on evaporation ..... ≤50 ppm    Sulphate ..... ≤10 ppm  
 Refractive index at 20°C ..... 1.4343 ÷ 1.4403    Acidity (acetic acid) ..... ≤150 ppm    Fe ..... ≤5 ppm

Code	Size	Packaging	Notes
444307	1 l	Glass bottle	
444308	25 kg	Polythene-metal drum	

**p-Dimethylaminobenzaldehyde**  
 p-Dimetilamminobenzaldeide • p-Diméthylaminobenzaldéhyde • p-Dimetilaminobenzaldehyd

Synonym: Ehrlich's reagent

(CH3)2NC6H4CHO  
 Molecular Weight: 149,19  
 CAS: 100-10-7  
 EEC-N: 202-819-0

**Warning**  
 H302  
 P264-P270-P330-P301+P312a-P501a

### p-Dimethylaminobenzaldehyde > RPE - For analysis

RPE

Description ..... Yellow / Green    Melting point ..... 74 ± 2 ° C    Assay (non-aqueous medium) ..... ≥ 97.5 %  
 Identification ..... Positive    Free acidity ..... ≤ 1 %

Code	Size	Packaging	Notes
444604	100 g	Plastic bottle	
444603	250 g	Plastic bottle	





## p-Dimethylaminobenzylidenerhodanine

p-Dimetilaminobenzalrodanina • p-Diméthylaminobenzalrhodanine • p-Dimetilaminobencilidenrodanina

(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CH:CSC:SNHCO  
Molecular Weight: 264,37  
CAS: 536-17-4  
EEC-N: 208-625-2



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### p-Dimethylaminobenzylidenerhodanine > RPE - For analysis

RPE

Description ..... Red crystalline powder      Loss on drying ..... ≤1 %      Copper sensitivity ..... ≥0.5 µg/ml  
Identification ..... Positive      Residue on ignition ..... ≤0.5 %      pH range ..... 2.9 - 4.0

Code	Size	Packaging	Notes
444678	5 g	Glass bottle	

**Acid-base indicator (pH 2,9÷4,0)**



## Dimethyldichlorosilane

Dimetildiclorosilano • Diméthyldichlorosilane • Dimetildiclorosilano

Synonym:

DMDCS

(CH<sub>3</sub>)<sub>2</sub>SiCl<sub>2</sub>  
Molecular Weight: 129,06  
CAS: 75-78-5  
EEC-N: 200-901-0

### Classification transport

ONU: 1162  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H319-H335  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### Dimethyldichlorosilane > RPE - For analysis

RPE

Description ..... Clear colourless liquid      Density at 20° C ..... 1.070 ÷ 1.072      Boiling point ..... 68.5 ÷ 69.5 ° C  
Identification ..... Positive      Refractive index at 20°C ..... 1.4040 ÷ 1.4060      Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
444771	100 ml	Glass bottle	

**For derivatization**



## n,n-Dimethylformamide

n,n-Dimetilformamide • n,n-Diméthylformamide • n,n-Dimetil formamida

Synonym:

DMF

(CH<sub>3</sub>)<sub>2</sub>NOCH  
Molecular Weight: 73,09  
CAS: 68-12-2  
EEC-N: 200-679-5

### Classification transport

ONU: 2265  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H312-H332-H319-H360D-HA26  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### n,n-Dimethylformamide > RS - For HPLC - Isocratic Grade

RS

Appearance ..... Clear colourless liquid      Non volatile residue ..... ≤ 0.0005 % m/m      UV transmittance at 270 nm ..... ≥ 30 %      UV transmittance at 320 nm ..... ≥ 97 %  
Colour ..... ≤ 10 Apha      Assay (GC) (on anhydrous) ..... ≥ 99.9 %      UV transmittance at 275 nm ..... ≥ 60 %  
Water content (K.F.) ..... ≤ 0.03 % m/m      Free acid (as CH<sub>3</sub>COOH) ..... ≤ 0.003 % m/m      UV transmittance at 300 nm ..... ≥ 90 %

Code	Size	Packaging	Notes
444981	1 l	Glass bottle	
444982	2.5 l	Glass bottle	

### n,n-Dimethylformamide > RS - For Headspace chromatography

RS

Description ..... Clear liquid      Boiling point ..... 152.0 ÷ 154.0 ° C      U.V. Transmittance      Residual solvent of class 2(acc. to ICH) ≤ 10 µg/g  
Colour (APHA) ..... ≤10      Water (K.F.) ..... ≤200 ppm      at 270 nm ..... ≥ 20 %      Residual solvent of class 3(acc. to ICH) ≤ 50 µg/g  
Identification ..... Positive      Residue on evaporation ..... ≤10 ppm      At 275 nm ..... ≥ 55 %      Residual solvent of class 1(acc. to ICH) . ≤ 1 µg/g  
Density at 20° C ..... 0.945 ÷ 0.955      Assay (GLC) ..... ≥99.99 %      at 300 nm ..... ≥ 85 %  
Refractive index at 20°C ..... 1.428 - 1.432      UV cut off ..... ≤ 269 nm      at 320 nm ..... ≥ 95 %

Code	Size	Packaging	Notes
444991	1 l	Glass bottle	

### n,n-Dimethylformamide > RS - ATRASOL - For analysis of volatile traces

RS

Appearance ..... Clear liquid      Colour ..... ≤ 10 Hazen      Free acid (as HCOOH) ..... ≤ 20 mg/Kg      Retention time range before DMF  
Refractive index at 20°C ..... 1.428 - 1.432      Water content (K.F.) ..... ≤ 200 mg/Kg      Free alkali as HN(CH<sub>3</sub>)<sub>2</sub> ..... ≤ 10 mg/Kg  
Density d20/4 ..... 0.945 - 0.955      Non volatile residue ..... ≤ 10 mg/Kg      GC-FID. Individ. peak (hexane) ..... ≤ 3 mg/l

Code	Size	Packaging	Notes
P0343216	1 l	Glass bottle	
P0343221	2.5 l	Glass bottle	

## n,n-Dimethylformamide > RS - PESTIPUR - For pesticide analysis

**RS**

Refractive index at 20°C ..... 1.428 - 1.432    Colour ..... ≤ 10 Hazen    Non volatile residue ..... ≤ 10 mg/Kg    Retention time trichlorobenzene to mirex  
 Water content (K.F.) ..... ≤ 500 mg/Kg    Assay (GC) ..... ≥ 99.8 %    GC-ECD. Individual peak (Lindane) .. ≤ 3 ng/l

Code	Size	Packaging	Notes
444941	1 l	Glass bottle	

## n,n-Dimethylformamide > RS - SPECTROSOL - For optical spectroscopy

**RS**

Description ..... Clear liquid    Boiling point ..... 152.0 ÷ 154.0 ° C    Assay (GLC) ..... ≥ 99.9 %    at 320 nm ..... ≥ 96 %  
 Colour (APHA) ..... ≤ 10    Water (K.F.) ..... ≤ 400 ppm    **U.V. Transmittance**    at 330 nm ..... ≥ 98 %  
 Identification ..... Positive    Residue on evaporation ..... ≤ 10 ppm    at 270 nm ..... ≥ 28 %  
 Density at 20° C ..... 0.945 ÷ 0.955    Acidity or alkalinity ..... ≤ 0.001 meq/g    at 280 nm ..... ≥ 72 %  
 Refract. index at 25° C ... 1.4224 ÷ 1.4314    Methyl alcohol ..... ≤ 100 ppm    at 300 nm ..... ≥ 90 %

Code	Size	Packaging	Notes
444957	1 l	Glass bottle	
444956	2.5 l	Glass bottle	

## n,n-Dimethylformamide > RS - Anhydrous - For analysis

**RS**

Appearance ..... Clear liquid    Colour ..... ≤ 10 Hazen    Non volatile residue ..... ≤ 20 mg/Kg    Assay (GC) ..... ≥ 99.9 %  
 Identification (IR) ..... Conform    Water content (K.F.) ..... ≤ 50 mg/Kg    Free acid (as HCOOH) ..... ≤ 20 mg/Kg    Methanol ..... ≤ 100 mg/Kg  
 Refractive index at 20°C ..... 1.428 - 1.432    Density d20/4 ..... 0.945 - 0.955    Free alkali as HN(CH3)2 ..... ≤ 10 mg/Kg    Iron (Fe) ..... ≤ 5 mg/Kg

Code	Size	Packaging	Notes
P0341010	200 ml	Bottle with septum	
P03410T10	200 ml	Bottle with septum	On molecular sieves 4A.
P0341016	1 l	Glass bottle	
P03410T16	1 l	Glass bottle	On molecular sieves 4A
P0341021	2.5 l	Glass bottle	

## n,n-Dimethylformamide > RS - For peptide synthesis

**RS**

Appearance ..... Clear colourless liquid    Bromophenol blue test ..... Conform    Non volatile residue ..... ≤ 15 mg/Kg    Iron (Fe) ..... ≤ 0.05 mg/Kg  
 Colour ..... ≤ 10 Hazen    Amines content ..... ≤ 5 mg/Kg    Copper (Cu) ..... ≤ 0.05 mg/Kg    Nickel (Ni) ..... ≤ 0.05 mg/Kg  
 Refractive index at 20°C ..... 1.428 - 1.432    Assay (GC) ..... ≥ 99.9 %    Cadmium (Cd) ..... ≤ 0.05 mg/Kg    Lead (Pb) ..... ≤ 0.1 mg/Kg  
 Water content (K.F.) ..... ≤ 300 mg/Kg    Methanol ..... ≤ 100 mg/Kg    Chromium (Cr) ..... ≤ 0.05 mg/Kg

Code	Size	Packaging	Notes
P0343516	1 l	Glass bottle	
P0343521	2.5 l	Glass bottle	
P0343522	5 l	Plastic tank	
P0343541	10 l	Plastic tank	
P0343549	25 l	Plastic drum	
P0343550	25 l	Polythene-metal drum	
P0343567	200 l	Plastic drum	

## n,n-Dimethylformamide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Clear liquid    Refract. index at 25° C ... 1.4224 ÷ 1.4314    Chloride ..... ≤ 10 ppm    Fe ..... ≤ 0.05 ppm  
 Colour (APHA) ..... ≤ 15    Boiling point ..... 152.0 ÷ 154.0 ° C    Heavy metals (Pb) ..... ≤ 1 ppm    Ni ..... ≤ 0.02 ppm  
 Identification (I.R.) ..... Conform    Water (K.F.) ..... ≤ 0.03 %    Sulphate ..... ≤ 10 ppm    Pb ..... ≤ 0.1 ppm  
 Water miscibility ..... Conform    Residue on evaporation ..... ≤ 20 ppm    Cd ..... ≤ 0.05 ppm    Assay (GLC) ..... ≥ 99.9 %  
 Chloroform miscibility ..... Complete    Acidity (formic acid) ..... ≤ 20 ppm    Cr ..... ≤ 0.02 ppm    Methyl alcohol ..... ≤ 100 ppm  
 Density at 20° C ..... 0.949 ÷ 0.952    Alkalinity (NH3) ..... ≤ 20 ppm    Cu ..... ≤ 0.02 ppm

Code	Size	Packaging	Notes
444926	1 l	Glass bottle	
444923	2.5 l	Glass bottle	
444928	20 kg	Drum	
444925	190 kg	Metal drum	

**n,n-Dimethylformamide > RE - Pure**

RE

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4229 ÷ 1.4329	Water (K.F.) .....	≤ 0.03 %	Assay (GLC) .....	≥ 99.9 %
Identification .....	Positive	Boiling point..... 152.0 ÷ 154.0 °C	Methyl alcohol.....	≤ 100 ppm		
Colour .....	≤ 10 APHA	pH at 20°C .....	Free acid (as HCOOH).....	≤ 0.0020 %		
Density at 20°C .....	0.945 ÷ 0.950	Residue on evaporation .....	Free alkali as HN(CH <sub>3</sub> ) <sub>2</sub> .....	≤ 0.0010 %		

Code	Size	Packaging	Notes
508801	1 l	Glass bottle	
508802	2.5 l	Glass bottle	
528221	5 l	Plastic tank	
528220	25 l	Metal drum	
508803	200 l	Metal drum	

**n,n-Dimethylformamide-d7**

n,n-Dimetilformamide-d7 • n,n-Diméthylformamide-d7 • n,n-Dimetilformamida-d7

Synonym:

DMF-d7

Heptadeutero-N,N-dimethylformamide

(CD<sub>3</sub>)<sub>2</sub>NOCD  
 Molecular Weight: 80,14  
 CAS: 4472-41-7  
 EEC-N: 224-745-8

**Classification transport**

ONU: 2265  
 Transport Hazard class: 3  
 Packing group III

**Danger**

H226-H312-H332-H319-H360D-HA26  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

**n,n-Dimethylformamide-d7 > RS - For NMR - min 99.5%**

RS

Code	Size	Packaging	Notes
P5189A	2 x 0.75 ml	Glass ampoule	
P5183A	5 ml	Glass ampoule	

**n,n-Dimethylformamide dimethylacetal**

n,n-Dimetilformamide dimetilacetale • n,n-Diméthylformamide diméthylacétal • n,n-Dimetilformamida dimetilacetale

Synonym:

1,1-Dimethoxy-N,N-dimethylmethylamine

(CH<sub>3</sub>)<sub>2</sub>NCH(OCH<sub>3</sub>)<sub>2</sub>  
 Molecular Weight: 119,16  
 CAS: 4637-24-5  
 EEC-N: 225-063-3

**Classification transport**

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H332-H315-H319  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

**n,n-Dimethylformamide dimethylacetal > RPE - For analysis**

RPE

Description .....	Clear colourless liquid	Density at 20° C .....	0.890 - 0.910	Assay (GC) .....	≥ 97 %
Identification .....	Positive	Boiling point.....	102 - 104 ° C		

Code	Size	Packaging	Notes
444901	10 ml	Glass bottle	

**For derivatization**

Dimethylglyoxime disodium salt octahydrate ► Diacetyldioxime sodium salt

3,7-Dimethyl-2,6-octadienal ► Citral



## n,n'-Dimethylpropylene uree

n,n'-Dimetilpropilene urea • n,n'-Diméthylpropylène urée • n,n'-Dimetilpropileno urea

Synonym:  
DMPU

$C_6H_{12}N_2O$   
Molecular Weight: 128,17  
CAS: 7226-23-5  
EEC-N: 230-625-6



### Danger

H302-H318-H361f  
P264-P280i-P305+P351+P338-P308+P313-P330-P301+P312a

### n,n'-Dimethylpropylene uree > RE - Pure

RE

Clear, colourless to light yellow liq. .Conform Refractive index at 20°C.. 1.4883 - 1.4913 Water content (K.F.) ..... ≤ 1000 mg/Kg Assay (GC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
P8020218	500 ml	Glass bottle	
P8020216	1 l	Glass bottle	
P8020229	5 l	Plastic tank	
P8020248	25 l	Metal drum	



## Dimethylsulphoxide

Dimetilsolfossido • Diméthylsulfoxyde • Dimetilsulfóxido

Synonym:  
Methyl sulfoxide  
DMSO

$CH_3SOCH_3$   
Molecular Weight: 78,13  
CAS: 67-68-5  
EEC-N: 200-664-3



### Warning

H315-H319  
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

### Dimethylsulphoxide > RS - For HPLC - Isocratic Grade

RS

Appearance ..... Clear colourless liquid Non volatile residue ..... ≤ 0.0005 % m/m UV transmittance at 263 nm ..... ≥ 10 % UV transmittance at 310 nm ..... ≥ 90 %  
Colour ..... ≤ 10 Apha Assay (GC) (on anhydrous) ..... ≥ 99.95 % UV transmittance at 270 nm ..... ≥ 40 % UV transmittance at 330 nm ..... ≥ 95 %  
Water content (K.F.) ..... ≤ 0.04 % m/m Free acid ..... ≤ 0.0005 meq/g UV transmittance at 290 nm ..... ≥ 70 % UV transmittance from 350 nm to 400 nm ≥ 98 %

Code	Size	Packaging	Notes
445141	1 l	Glass bottle	
445142	2.5 l	Glass bottle	

### Dimethylsulphoxide > RS - For Headspace chromatography

RS

Description ..... Clear liquid Assay (GLC) ..... ≥ 99.99 % at 350 nm ..... ≥ 95 % µg/g  
Identification ..... Positive UV cut off ..... ≤ 265 nm at 400 nm ..... ≥ 98 % Residual solvent of class 3(acc. to ICH) ≤ 50 µg/g  
Density at 20° C ..... 1.100 - 1.104 U.V. Transmittance GC/HS  
Water (K.F.) ..... ≤ 200 ppm at 268 nm ..... ≥ 30 % Residual solvent of class 1(acc. to ICH) . ≤ 1 µg/g  
Refractive index at 20°C ..... 1.477 - 1.480 at 275 nm ..... ≥ 60 % Residual solvent of class 2(acc. to ICH) ≤ 10 µg/g  
Residue on evaporation ..... ≤ 2 ppm at 300 nm ..... ≥ 85 %

Code	Size	Packaging	Notes
445121	1 l	Glass bottle	

### Dimethylsulphoxide > RS - ATRASOL - For analysis of volatile traces

RS

Appearance ..... Clear colourless liquid Water content (K.F.) ..... ≤ 200 mg/Kg Non volatile residue ..... ≤ 2 mg/Kg  
Refractive index at 20°C ..... 1.477 - 1.481 Colour ..... ≤ 10 Hazen GC-FID. Individ. peak (hexane) ..... ≤ 3 mg/l  
Density d20/4 ..... 1.096 - 1.106 Assay (GC) ..... ≥ 99.98 % Retention time range before DMSO

Code	Size	Packaging	Notes
P0353216	1 l	Glass bottle	
P0353221	2.5 l	Glass bottle	

### Dimethylsulphoxide > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

RS

Description ..... Clear colourless liquid Residue on evaporation ..... ≤ 10 ppm at 365 nm ..... ≤ 2 ppb U.V. Transmittance  
Identification ..... Positive Acidity ..... ≤ 0.0005 meq/g Dimethylsulphone ..... ≤ 0.1 % at 265 nm ..... ≥ 10 %  
Density at 20° C ..... 1.100 ÷ 1.104 Alkalinity ..... ≤ 0.0002 meq/g UV Absorbance at 262 nm ..... ≤ 1.00 AU at 275 nm ..... ≥ 60 %  
Refractive index at 20°C ..... 1.478 ÷ 1.479 Assay (GLC) ..... ≥ 99.8 % UV Absorbance at 270 nm ..... ≤ 0.46 AU At 290 nm ..... ≥ 71 %  
Melting point ..... ≥ 18.3 ° C Fluorescence UV Absorbance at 290 nm ..... ≤ 0.16 AU at 315 nm ..... ≥ 90 %  
Water (K.F.) ..... ≤ 500 ppm at 254 nm ..... ≤ 2 ppb UV Absorbance from 340 nm ..... ≤ 0.01 AU At 340 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
445112	1 l	Glass bottle	
445111	2.5 l	Glass bottle	

**Dimethylsulphoxide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4765 ÷ 1.4825	Residue on evaporation .....	≤50 ppm	Sulphate .....	≤50 ppm
Identification .....	Positive	Boiling point..... 188.5 ÷ 189.5 °C	Acidity .....	≤0.001 meq/g	Assay (GLC) .....	≥99.9 %
Ready carbonizable substances.....	Conform	Melting point..... 18.3 ÷ 18.7 °C	Chloride.....	≤5 ppm		
Density at 20° C .....	1.096 ÷ 1.106	Water (K.F.) .....	Heavy metals (Pb).....	≤20 ppm		

Code	Size	Packaging	Notes
445103	1 l	Glass bottle	
445106	2.5 l	Glass bottle	
445107	15 kg	Plastic tank	
445101	25 kg	Plastic tank	

**Hygroscopic product. Store well sealed in a dry place****Dimethylsulphoxide > RE - Pure****RE**

Description .....	Clear colourless liquid	Assay (GC) .....	≥ 99.8 %	Acidity .....	≤ 100 ppm	Assay (GLC) .....	≥ 99.8 %
Water content (K.F.) .....	≤ 100 mg/Kg	Density at 20°C .....	1.096 ÷ 1.106	Water (K.F.) .....	≤ 0.1 %		
Identification .....	Positive	Refractive index at 20°C. 1.4765 ÷ 1.4825		Residue on evaporation .....	≤ 50 ppm		
Colour .....	≤ 10 APHA	Boiling point..... 188 ÷ 190 °C		Dimethylsulphone.....	≤ 0.1 %		

Code	Size	Packaging	Notes
508001	1 l	Glass bottle	
508002	2.5 l	Glass bottle	
528335	5 l	Plastic tank	
P03502T10	200 ml	Bottle with septum	On molecular sieves 4A
P03502T16	1 l	Glass bottle	On molecular sieves 4A
P03502T21	2.5 l	Glass bottle	On molecular sieves 4A

**Hygroscopic product. Store well sealed in a dry place****Dimethylsulphoxide-d6**

Dimetilsolfossido-d6 • Diméthylsulfoxyde-d6 • Dimetilsulfóxido-d6

Synonym:  
Hexadeuterodimethyl sulfoxide

CD<sub>3</sub>SOCD<sub>3</sub>  
Molecular Weight: 84,18  
CAS: 2206-27-1  
EEC-N: 218-617-0

**Warning**

H315-H319  
P264-P280g-P280i-P305+P351+P338-P332+P313-  
P337+P313

**Dimethylsulphoxide-d6 > RS - For NMR - min 99.8%****RS**

Code	Size	Packaging	Notes
P5200	10 x 0.6 ml	Glass ampoule	
P5209	10 x 0.75 ml	Glass ampoule	
P5204A	10 ml	Glass ampoule	
P5204S	5 x 10 ml	Bottle with septum	
P5205	25 ml	Glass bottle	
P5206	100 ml	Glass bottle	


**Hygroscopic product. Store well sealed in a dry place****Dimethylsulphoxide-d6 > RS - For NMR - min 99.96%****RS**

Code	Size	Packaging	Notes
P5220	10 x 0.6 ml	Glass ampoule	
P5229	10 x 0.75 ml	Glass ampoule	

**Hygroscopic product. Store well sealed in a dry place**

**Dimethylsulphoxide-d6 + 0.03% TMS**  
 Dimetilsolfossido-d6 + 0.03% TMS • Diméthylsulfoxyde-d6 + 0.03% TMS • Dimetilsulfóxido-d6 + 0.03% TMS  
 Synonym: Hexadeuterodimethyl sulfoxide

CD<sub>3</sub>SOCD<sub>3</sub>  
 Molecular Weight: 84,18  
 CAS: 2206-27-1  
 EEC-N: 218-617-0

 **Warning**  
 H315-H319  
 P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

**Dimethylsulphoxide-d6 + 0.03% TMS > RS - For NMR - min 99.8%** **RS**

Code	Size	Packaging	Notes
P5602	10 x 0.6 ml	Glass ampoule	
P5605	25 ml	Glass bottle	
P5606	100 ml	Glass bottle	

**Hygroscopic product. Store well sealed in a dry place**


**Dimethylsulphoxide-d6 + 0.03% TMS > RS - For NMR - min 99.95%** **RS**

Code	Size	Packaging	Notes
P5541	10 x 0.75 ml	Glass ampoule	
P5545	25 ml	Glass bottle	

**Hygroscopic product. Store well sealed in a dry place**

**Dimidium bromide**  
 Dimidio bromuro • Dimidium bromure • Dimidio bromuro  
 Synonym: 3,8-Diamino-5-methyl-6-phenylphenanthridinium bromide  
 Trivoadine

C<sub>20</sub>H<sub>18</sub>BrN<sub>3</sub>  
 Molecular Weight: 380,29  
 CAS: 518-67-2  
 EEC-N: 208-256-7

 **Warning**  
 H315-H319  
 P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

**Dimidium bromide > RPE - For analysis** **RPE**

Description ..... Polvere rosso - bruna Identification ..... Positive



Code	Size	Packaging	Notes
445232	1 g	Glass bottle	
445231	5 g	Glass bottle	
445233	25 g	Glass bottle	

**For the determination of surfactants**

**2,4-Dinitrochlorobenzene**  
 2,4-Dinitrochlorobenzene • 2,4-Dinitrochlorobenzène • 2,4-Dinitro -1-clorobenceno  
 Synonym: DNGB  
 1-Chloro-2,4-dinitrobenzene

(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl  
 Molecular Weight: 202,55  
 CAS: 97-00-7  
 EEC-N: 202-551-4

**Classification transport**  
 ONU: 3441  
 Transport Hazard class: 6.1  
 Packing group II

  **Danger**  
 H301-H311-H331-H373-H410  
 P264-P273-P271-P304+P340-P301+P310a-P312a

**2,4-Dinitrochlorobenzene > RE - Pure** **RE**

Description ..... Yellow crystal. powder Melting point ..... 48 ÷ 52 ° C Assay (argentimetric) ..... ≥98 %  
 Identification ..... Positive Residue on ignition ..... ≤0.1 %

Code	Size	Packaging	Notes
445421	250 g	Glass bottle	



### 2,4-Dinitrophenylhydrazine (with 30% of water)

2,4-Dinitrofenilidrazina (con 30% di acqua) • 2,4-Dinitrophenylhydrazine (avec 30% d'eau) • 2,4-Dinitrofenilhidracina (con 30% de agua)

(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NHNH<sub>2</sub>  
Molecular Weight: 198,14  
CAS: 119-26-6  
EEC-N: 204-309-3

**Classification transport**  
ONU: 1325  
Transport Hazard class: 4.1  
Packing group II



**Danger**  
H228-H302-H315-H319-HEU001  
P210-P241-P264-P280a-P305+P351+P338-P330

### 2,4-Dinitrophenylhydrazine (with 30% of water) > RPE - For analysis

**RPE**

Description ..... Reddish powder    Melting point ..... 198 ÷ 201 °C    Residue on ignition ..... ≤ 500 ppm    Assay (HPLC) ..... ≥ 98.5 %  
Identification ..... Positive    Water (K.F.) ..... 30 ÷ 35 %    Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
445524	100 g	Glass bottle	



### 1,4-Dioxane

1,4-Diossano • 1,4-Dioxane • 1,4-Dioxano

Synonym:  
Diethylene oxide

OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>  
Molecular Weight: 88,11  
CAS: 123-91-1  
EEC-N: 204-661-8

**Classification transport**  
ONU: 1165  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H351-H335-HEU019-HEU066  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### 1,4-Dioxane > RS - For HPLC - Isocratic grade - Stabilized with BHT

**RS**

Description ..... Clear liquid    Boiling point ..... 100 ÷ 102 °C    Alkalinity (NH<sub>3</sub>) ..... ≤ 3 ppm    At 250 nm ..... ≤ 0.20 AU  
Colour ..... ≤ 20 APHA    Water (K.F.) ..... ≤ 250 ppm    Carbonyl compounds (CO) ..... ≤ 100 ppm    At 270 nm ..... ≤ 0.07 AU  
Identification (I.R.) ..... Positive    Residue on evaporation ..... ≤ 5 ppm    Peroxyde (H<sub>2</sub>O<sub>2</sub>) ..... ≤ 30 ppm    At 280 nm ..... ≤ 0.05 AU  
Refractive index at 20°C ..... 1.420 ÷ 1.424    Acetal ..... ≤ 500 ppm    Heavy metals (Pb) ..... ≤ 0.1 ppm    At 290 nm ..... ≤ 0.02 AU  
Density at 20°C ..... 1.031 ÷ 1.037    Acidity (acetic acid) ..... ≤ 50 ppm    Assay (CPG) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
443231	1 l	Glass bottle	

### 1,4-Dioxane > RS - Anhydrous - For analysis - Stabilized with BHT

**RS**

Refractive index at 20°C ..... 1.42 - 1.424    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99.8 %    Non volatile residue (without stab.) ≤ 10 mg/Kg  
Water content (K.F.) ..... ≤ 100 mg/Kg    Peroxides (as H<sub>2</sub>O<sub>2</sub>) ..... ≤ 50 mg/Kg    Stabilizer (ionol) ..... 20 - 80 mg/Kg    Free acid (as CH<sub>3</sub>COOH) ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0361010	200 ml	Bottle with septum	
P0361016	1 l	Glass bottle	
P0361021	2.5 l	Glass bottle	

### 1,4-Dioxane > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611032001	50 ml	Glass bottle	Dioxane stock solution 1.0 mg/ml Ref Ph.Eur 1032001
611032002	100 ml	Glass bottle	Dioxane solution 0.5 mg/ml Ref Ph.Eur 1032002
611032003	50 ml	Glass bottle	Dioxane solution R1 0.1 mg/ml Ref Ph.Eur 1032003

### 1,4-Dioxane > RPE - For analysis - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized with BHT

**RPE**

Description ..... Clear colourless liquid    Water (K.F.) ..... ≤ 500 ppm    Total sulphur ..... ≤ 0.2 ppm    Na ..... ≤ 0.5 ppm  
Identification ..... Positive    Residue on evaporation ..... ≤ 20 ppm    Ca ..... ≤ 0.5 ppm    Pb ..... ≤ 0.05 ppm  
Density at 20° C ..... 1.032 ÷ 1.036    Acetal ..... ≤ 50 ppm    Cu ..... ≤ 0.02 ppm    Zn ..... ≤ 0.2 ppm  
Refractive index at 20°C ..... 1.4194 ÷ 1.4254    Acidity ..... ≤ 0.0016 meq/g    Fe ..... ≤ 0.2 ppm    Assay (GLC) ..... ≥ 99.8 %  
Boiling point ..... 100.5 ÷ 101.5 °C    Total phosphorus ..... ≤ 0.1 ppm    K ..... ≤ 0.1 ppm    Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... ≤ 50 ppm  
Freezing point ..... 11.5 ÷ 12.1 °C    Total silicon ..... ≤ 0.05 ppm    Mg ..... ≤ 0.05 ppm    Carbonyl (as HCHO) ..... ≤ 100 ppm

Code	Size	Packaging	Notes
443202000	1 l	Glass bottle	
443206000	2.5 l	Glass bottle	
443204000	5 l	Plastic tank	
443201000	28 kg	Metal drum	

**1,4-Dioxane > RE - Pure - Stabilized with BHT****RE**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4174 ÷ 1.4274	Acetal.....	≤0.2 %	Stabilized with BHT.....	20 ÷ 80 ppm
Identification .....	Positive	Boiling point.....	Acidity (acetic acid).....	≤ 50 ppm	Stabilisation (ionol) faite à l'atelier .	Conform
Colour .....	≤ 10 APHA	Water (K.F).....	Peroxides (H2O2) .....	≤ 50 ppm		
Density at 20° C .....	1.031 ÷ 1.037	Residue on evaporation .....	Assay (GLC) .....	≥99.5 %		

Code	Size	Packaging	Notes
338001	1 l	Glass bottle	
338003	2.5 l	Glass bottle	
338002	5 l	Plastic tank	
338005	28 kg	Metal drum	
338004	25 l	Plastic tank	

**1,3-Dioxolane**

1,3-Diossolano • 1,3-Dioxolane • 1,3-Dioxolano

Synonym:  
Ethylene glycol methylene ether  
Formaldehyde ethylene acetal

$C_3H_6O_2$   
Molecular Weight: 74,08  
CAS: 646-06-0  
EEC-N: 211-463-5

**Classification transport**  
ONU: 1166  
Transport Hazard class: 3  
Packing group II

**Danger**

H225  
P210-P241-P243-P280a-P303+P361+P353-  
P403+P235

**1,3-Dioxolane > RE - Pure****RE**

Refractive index at 20°C.....	1.3980 - 1.4020	Colour .....	≤ 10 Hazen	Peroxides (as H2O2).....	≤ 10 mg/Kg
Water content (K.F).....	≤ 150 mg/Kg	Assay (GC).....	≥ 99.9 %	Stabilizer (ionol).....	~75 mg/kg

Code	Size	Packaging	Notes
P8030216	1 l	Glass bottle	
P8030222	5 l	Plastic tank	

**Diphenylamine**

Difenilammina • Diphénylamine • Difenilamina

$(C_6H_5)_2NH$   
Molecular Weight: 169,23  
CAS: 122-39-4  
EEC-N: 204-539-4

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group II

**Danger**

H301-H311-H331-H373-H410  
P264-P273-P271-P304+P340-P301+P310a-P312a

**Diphenylamine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	White crystalline powder	Nitrate .....	Conform	Nitrate sensitivity.....	Conform	Residue on calcination.....	≤ 0.03 %
Identification .....	Positive	Melting point.....	52.5 ÷ 54.0 °C	Alcohol solubility .....	Conform		

Code	Size	Packaging	Notes
443654	100 g	Plastic bottle	

**Redox indicator purple - colorless****Diphenylamine solution 1% in sulfuric acid**

Difenilammina soluzione 1% in acido solforico • Diphénylamine solution 1% dans l'acide sulfurique • Difenilamina solución 1% en ácido sulfúrico

$(C_6H_5)_2NH$   
Molecular Weight: 169,23  
CAS: 122-39-4

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II

**Danger**

H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

**Diphenylamine solution 1% in sulfuric acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611032109	100 ml	Glass bottle	Ref Ph.Eur 1032101
611032101	1 l	Glass bottle	Ref Ph.Eur 1032101
611032102	1 l	Glass bottle	Diphenylamine solution R1 Ref Ph.Eur 1032102

**Storage: protected from light**





### 4-Diphenylaminesulfonic acid sodium salt

4-Difenilammina solfonato sodico • 4-Diphénylamine sulfonate sodique • 4-Difenilamina sulfonato sal sódica

Synonym:  
4-(Phenylamino)benzene sulfonic acid sodium salt  
Sodium diphenylamine-4-sulfonate

$C_6H_5NHC_6H_4SO_3Na$   
Molecular Weight: 271,27  
CAS: 6152-67-6  
EEC-N: 228-165-6



#### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

#### 4-Diphenylaminesulfonic acid sodium salt > RPE - For analysis - ACS

RPE

Description ..... Whitish powder Identification ..... Positive Sensitivity as indicat. .... Conform

Code	Size	Packaging	Notes
443671	10 g	Glass bottle	
443672	25 g	Glass bottle	

Redox indicator. Purple / Red - Clear



### sym-Diphenylcarbazine

sim-Difenilcarbazine • Sym-Diphénylcarbazine • sim-Difenilcarbacida

Synonym:  
1,5-Diphenylcarbazine  
1,5-Diphenylcarbohydrazide

$C_6H_5NHNHCONHNHC_6H_5$   
Molecular Weight: 242,28  
CAS: 140-22-7  
EEC-N: 205-403-7

#### sym-Diphenylcarbazine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder Melting point .....  $173 \div 176^\circ C$  Chromate sensitivity ..... Conform Assay (HPLC) .....  $\geq 99.0\%$   
Identification ..... Positive Loss on drying .....  $\leq 1\%$  Sulphated ash .....  $\leq 0.05\%$

Code	Size	Packaging	Notes
443752	25 g	Glass bottle	
443754	100 g	Glass bottle	

Redox indicator



### sym-Diphenylcarbazone

sim-Difenilcarbazone • Sym-Diphénylcarbazone • sim-Difenilcarbazona

Synonym:  
Phenylazoformic acid 2-phenylhydrazide

$C_6H_5N:NCONHNHC_6H_5$   
Molecular Weight: 240,27  
CAS: 538-62-5  
EEC-N: 208-698-0

#### sym-Diphenylcarbazone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Orange crystalline powder Acetone solubility ..... Conform Residue on ignition .....  $\leq 0.1\%$   
Identification ..... Positive Mercury sensitivity ..... Conform

Code	Size	Packaging	Notes
443801	10 g	Glass bottle	

Contains sym-Diphenylcarbazine. Redox indicator

Diphenylmethanol ► Benzhydrol



### 2,5-Diphenyloxazole

2,5-Difenilossazolo • 2,5-Diphényloxazole • 2,5-Difeniloxazol

Synonym:  
DPO

$C_{15}H_{11}NO$   
Molecular Weight: 221,26  
CAS: 92-71-7  
EEC-N: 202-181-3

#### 2,5-Diphenyloxazole > RS - For radiochemistry

RS

Description ..... White crystalline powder Identification ..... Positive

Code	Size	Packaging	Notes
443972	100 g	Plastic bottle	



## Diphenylthiocarbazono

Difeniltiocarbazono • Diphénylthiocarbazono • Difeniltiocarbazona

Synonym:  
Dithizone

$C_6H_5NHNHCSN:NC_6H_5$   
Molecular Weight: 256,32  
CAS: 60-10-6  
EEC-N: 200-454-1



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

### Diphenylthiocarbazono > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Black-violet powder E 620/E 450 nm .....  $\geq 1.55$  Residue on ignition .....  $\leq 0.3\%$   
Identification ..... Positive Heavy metals (Pb) .....  $\leq 20$  ppm Assay (spectrophotom.) .....  $\geq 85.0\%$

Code	Size	Packaging	Notes
444053	50 g	Glass jar	



## 2,2'-Dipyridyl

2,2'-Dipiridile • 2,2'-Dipyridyle • 2,2'-Dipiridilo

Synonym:  
2,2'-Bipyridine

$C_{10}H_8N_2$   
Molecular Weight: 156,19  
CAS: 366-18-7  
EEC-N: 206-674-4

### Classification transport

ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



### Danger

H301-H311  
P264-P280h-P270-P301+P310a-P312a-P330

### 2,2'-Dipyridyl > RPE - For analysis

RPE

Description ..... Polvere crist. quasi bianca Melting point .....  $69 \div 72$  ° C Iron sensitivity ..... Conform  
Identification ..... Positive Residue on ignition .....  $\leq 0.1\%$  Assay (GLC) .....  $\geq 99.0\%$

Code	Size	Packaging	Notes
445958	5 g	Glass bottle	
445959	25 g	Glass bottle	

Reactive iron and molybdenum

2,6 - Di-tert-butyl-p-cresol ► Butylhydroxytoluene

Direct red 28 ► Congo red

Dithizone ► Diphenylthiocarbazono



## 1-Dodecanesulfonic acid sodium salt

Acido 1-dodecanosulfonico sale sodico • Acide 1-dodecanesulfonique sel sodique • Acido 1-dodecanosulfónico sal sódica

Synonym:  
Sodium 1-dodecanesulfonate  
1-Dodecanesulfonic acid sodium salt

$CH_3(CH_2)_{11}SO_3Na$   
Molecular Weight: 272,39  
CAS: 2386-53-0

### 1-Dodecanesulfonic acid sodium salt > RS - For ion pair chromatography

RS

Description ..... White crystalline powder Assay .....  $\geq 99.0\%$  Absorbance (5% in water) At 220 nm .....  $\leq 0.03$  AU  
Water (K.F.) .....  $\leq 1.0\%$  At 210 nm .....  $\leq 0.05$  AU At 230 nm .....  $\leq 0.02$  AU

Code	Size	Packaging	Notes
405881	25 g	Glass bottle	
405882	100 g	Plastic bottle	

**Dodecylbenzenesulphonic acid sodium salt**

Acido dodecilbenzenosulfonico sale sodico • Acide dodécylbenzènesulfonique sel sodique • Acido dodecilbencensulfónico sal sódica

Synonym:  
Sodium dodecylbenzenesulfonateC<sub>12</sub>H<sub>25</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na  
Molecular Weight: 348,49  
CAS: 25155-30-0  
EEC-N: 246-680-4**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a**Dodecylbenzenesulphonic acid sodium salt > RS - For surfactants detection**

RS

Description ..... White-yellowish crystalline powder Identification ..... Positive Water ..... &lt; 5.0 % Assay ..... &gt; 83 %

Code	Size	Packaging	Notes
405351	10 g	Glass bottle	
405352	25 g	Glass bottle	

**Minimum 90% biodegradability****Dodecyltrimethylammonium bromide**

Dodeciltrimetilammonio bromuro • Dodécyltriméthylammonium bromure • Dodeciltrimetilamonio bromuro

Synonym:  
Dodecyltrimethylammonium bromide  
Lauryltrimethylammonium bromideCH<sub>3</sub>(CH<sub>2</sub>)<sub>11</sub>N(CH<sub>3</sub>)<sub>3</sub>Br  
Molecular Weight: 308,34  
CAS: 1119-94-4  
EEC-N: 214-290-3**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III**Warning**  
H302-H315-H319-H335-H410  
P264-P273-P271-P280-P304+P340-P305+P351+P338**Dodecyltrimethylammonium bromide > RS - For ion pair chromatography**

RS

Absorbance UV curve (10%)  
A240nm (1M) ..... ≤ 0.2 AU A250nm (1M) ..... ≤ 0.03 AU A500nm (1M) ..... ≤ 0.02 AU  
A260nm (1M) ..... ≤ 0.02 AU

Code	Size	Packaging	Notes
405941	25 g	Plastic jar	
405942	100 g	Plastic bottle	

**Dysprosium standard solution**

Disprosio standard soluzione • Dysprosium solution standard • Disprosio, solución patrón

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III**Dysprosium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505582	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505585	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Dysprosium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504231	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504235	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504233	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504237	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Dysprosium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507734	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507500	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

**Ehrlich's reagent**

Ehrlich reattivo • Réactif d'Ehrlich • Ehrlich reactivo

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Danger**H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Ehrlich's reagent > RS - For microscopy**

RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
E446302	500 ml	Glass bottle	

**For urobilinogen detection****Eluent sodium bicarbonate**

Eluente sodio bicarbonato • Eluant sodium dicarbonate • Eluyente sodio dicarbonato

NaHCO<sub>3</sub>  
Molecular Weight: 84.01  
CAS: 144-55-8**Eluent sodium bicarbonate > RS - Eluent concentrates for ion chromatography**

RS

Code	Size	Packaging	Notes
504534	100 ml	Plastic bottle	0.17 M Sodium bicarbonate
507578	1 l	Plastic bottle	0.5 M Sodium bicarbonate

**Eluent sodium carbonate**

Eluente sodio carbonato • Eluant sodium carbonate • Eluyente sodio carbonato

Synonym:  
Calced soda  
Carbonic acid disodium saltNaHCO<sub>3</sub>  
Molecular Weight: 84.01  
CAS: 144-55-8

HEU210

**Eluent sodium carbonate > RS - Eluent concentrates for ion chromatography**

RS

Code	Size	Packaging	Notes
507695	1 l	Plastic bottle	0.1 M Sodium carbonate
504533	100 ml	Plastic bottle	0.5 M Sodium carbonate
507577	1 l	Plastic bottle	0.5 M Sodium carbonate

**Eluent sodium carbonate/sodium bicarbonate**

Eluente sodio carbonato/sodio bicarbonato • Eluant sodium carbonate/sodium dicarbonate • Eluyente sodio carbonato/sodio dicarbonato

HEU210

**Eluent sodium carbonate/sodium bicarbonate > RS - Eluent concentrates for ion chromatography**

RS

Code	Size	Packaging	Notes
504530	100 ml	Plastic bottle	0.18 M Sodium carbonate / 0.17 M Sodium bicarbonate
504531	100 ml	Plastic bottle	0.22 M Sodium carbonate / 0.28 M Sodium bicarbonate
504532	100 ml	Plastic bottle	0.35 M Sodium carbonate / 0.1 M Sodium bicarbonate



## Eosin B

Eosina B • Eosine B • Eosina B

Synonym:

Acid Red 91

4',5'-Dibromo-2',7'-dinitrofluorescein, disodium salt

$C_{20}H_6Br_2N_2Na_2O_9$   
Molecular Weight: 624,09  
CAS: 548-24-3  
EEC-N: 208-943-1

### Eosin B > RPE - For analysis - C.I. 45400

RPE

Description ..... Brown greyish powder Identification ..... Positive Absorbion ind.sensit. .... Conform

Code	Size	Packaging	Notes
446602	25 g	Glass bottle	

**Dye for microscopy (histology). Absorbance and fluorescence indicator**



## Eosin Y

Eosina Y • Eosine Y • Eosina Y

Synonym:

Acid Red 87

2',4',5',7'-Tetrabromofluorescein disodium salt

$C_{20}H_6Br_4Na_2O_5$   
Molecular Weight: 691,86  
CAS: 17372-87-1  
EEC-N: 241-409-6



Warning

H312-H332

P271-P261-P280h-P304+P340-P312a-P302+P352a

### Eosin Y > RS - For microscopy - C.I. 45380

RS

Description ..... Red-brown powder Loss on drying ..... ≤ 10 % Assay ..... 80.00 ÷ 88.00 %  
Identification ..... Positive Sens. as absorption indicator ..... Conform

Code	Size	Packaging	Notes
446632	25 g	Glass bottle	
446634	100 g	Plastic bottle	

**Dye for histology**



## Eosin Y 1% solution aqueous

Eosina Y 1% soluzione acquosa • Eosine Y 1% solution aqueuse • Eosina Y 1% solución acuosa

Synonym:

Acid Red 87

2',4',5',7'-Tetrabromofluorescein disodium salt

$C_{20}H_6Br_4Na_2O_5$   
Molecular Weight: 691,86  
CAS: 17372-87-1

HEU210

### Eosin Y 1% solution aqueous > RS - For histology

RS

Description ..... Brown liquid Identification ..... Positive Maximum absorption ..... 515÷518 nm A 1%/1cm (0.005 g/l) ..... 1200÷1400 nm

Code	Size	Packaging	Notes
446644	1 l	Plastic bottle	

CE IVD



## Eosin Y 0.5% solution alcoholic

Eosina Y 0.5% soluzione alcolica • Eosine Y 0.5% solution alcoolique • Eosina Y 0.5% solución alcohólica

Synonym:

Acid Red 87

2',4',5',7'-Tetrabromofluorescein disodium salt

$C_{20}H_6Br_4Na_2O_5$   
Molecular Weight: 691,86  
CAS: 17372-87-1

HEU210

### Eosin Y 0.5% solution alcoholic > RS - For microscopy

RS

Code	Size	Packaging	Notes
446664	1 l	Plastic bottle	

CE IVD

**Erbium standard solution**

Erbio standard soluzione • Erbium solution standard • Erbio, solución patrón

**Classification transport**ONU: 2837  
Transport Hazard class: 8  
Packing group III**Erbium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505592	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505595	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Erbium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504241	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504245	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504243	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504247	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Erbium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507735	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507501	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Eriochrome black T**

Nero eriocromo T • Noir ériochrome T • Negro de eriocromo T

Synonym:  
Mordant Black 11 $C_{20}H_{12}N_3NaO_7S$   
Molecular Weight: 461,39  
CAS: 1787-61-7

HEU210

**Eriochrome black T > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611056801	100 g	Plastic bottle	Ref Ph.Eur 1056801

**Storage: protected from light****Eriochrome black T > RPE - For analysis - C.I. 14645**

RPE

Description ..... Blackish brown powder    Identification ..... Positive    Loss on drying ..... ≤ 10 %    Sensitivity ..... Conform

Code	Size	Packaging	Notes
464221	10 g	Glass bottle	
464222	25 g	Glass bottle	

**Complexometric indicator**



## Eriochromocyanine R

Eriocromo cianina R • Eriochrome cyanine R • Eriocromocianina R

Synonym:

Chromoxane cyanine R

$C_{23}H_{15}Na_3O_9S$   
Molecular Weight: 536,4  
CAS: 3564-18-9  
EEC-N: 222-641-7



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Eriochromocyanine R > RPE - For analysis - C.I. 43820

RPE

Description .....Red brick powder Identification .....Positive Aluminium sensitivity ..... $\geq 1$   $\mu\text{g/ml}$

Code	Size	Packaging	Notes
446811	10 g	Glass bottle	
446812	25 g	Glass bottle	

**For the determination of Al. Complexometric indicator**



## Erythrosin extra B

Eritrosina extra B • Erythrosine extra B • Eritrosina extra B

Synonym:

Acid Red 51

2',4',5',7'-Tetraiodofluorescein disodium salt

$C_{20}H_6I_4O_9Na_2$   
Molecular Weight: 879,87  
CAS: 16423-68-0  
EEC-N: 240-474-8



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### Erythrosin extra B > RS - For microscopy - C.I. 45430

RS

Description .....Red brown powder Identification .....Positive Assorbanza 524-527 nm .....Conform Assorbività specifica 1%/1cm .....930-1170

Code	Size	Packaging	Notes
446972	25 g	Glass bottle	
446971	100 g	Plastic bottle	

**Dye for histology**



## Esbach's reagent

Esbach reattivo • Réactif d'Esbach • Esbach reactivo

HEU210

### Esbach's reagent > RS - For microscopy

RS

Description .....Yellow clear liquid Identification .....Positive

Code	Size	Packaging	Notes
446981	1 l	Plastic bottle	

**For the determination of albumin**

1,2-Ethanediol ► Ethylene glycol



**Ethanol absolute anhydrous**

Etanolo assoluto anidro • Ethanol absolu anhydre • Etanol absoluto anhidro

Synonym:

Ethyl alcohol absolute anhydrous

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight: 46,07  
CAS: 64-17-5  
EEC-N: 200-578-6

**Classification transport**

ONU: 1170  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

**Ethanol absolute anhydrous > RS - For HPLC PLUS Gradient grade**

RS

Description	Clear colourless liquid	Water (K.F.)	≤0.05 %	<b>U.V. Transmittance</b>	At 260 nm	≥ 98 %
Identification	Positive	Residue on evaporation	≤5 ppm	at 210 nm	≥ 270 nm	≥ 99 %
Density at 20° C	0.7893 ÷ 0.7899	Assay (GLC)	≥99.9 %	at 220 nm	Acetal + acetaldehyde	≤ 10 ppm(v/v)
Refractive index at 20°C	1.3602 ÷ 1.3622	<b>Fluorescence</b>		at 230 nm	<b>HPLC Gradient</b>	
Boiling point	78.3 ÷ 78.8 ° C	at 254 nm	≤2 ppb	At 240 nm	At 235 nm	≤ 5 mAU
Acidity or alkalinity	≤0.0002 meq/g	at 365 nm	≤2 ppb	at 250 nm		≥90 %

Code	Size	Packaging	Notes
412701	1 l	Glass bottle	Only for Italian market
412703	1 l	Glass bottle PVC coated	Only for Italian market
4127012	1 l	Glass bottle	
4127032	1 l	Glass bottle PVC coated	
412702	2.5 l	Glass bottle	Only for Italian market
4127022	2.5 l	Glass bottle	

**Ethanol absolute anhydrous > RS - For HPLC - Isocratic Grade**

RS

Description	Clear colourless liquid	Acidity or alkalinity	≤0.0002 meq/g	<b>U.V. Transmittance</b>	at 250 nm	≥90 %
Identification	Positive	Water (K.F.)	≤0.05 %	at 210 nm	at 270 nm	≥94 %
Density at 20° C	0.7893 ÷ 0.7899	Residue on evaporation	≤5 ppm	at 220 nm	at 290 nm	≥97 %
Refractive index at 20°C	1.3602 ÷ 1.3622	Assay (GLC)	≥99.9 %	at 230 nm		
Boiling point	78.3 ÷ 78.8 ° C			At 240 nm		≥ 80 %

Code	Size	Packaging	Notes
412521	1 l	Glass bottle	Only for Italian market
4125212	1 l	Glass bottle	
412522	2.5 l	Glass bottle	Only for Italian market
4125222	2.5 l	Glass bottle	

**Ethanol absolute anhydrous > RS - SPECTROSOL - For optical spectroscopy**

RS

Description	Clear colourless liquid	Water (K.F.)	≤0.2 %	at 365 nm	≤2 ppb	at 250 nm	≥89 %
Identification	Positive	Residue on evaporation	≤10 ppm	<b>U.V. Transmittance</b>		at 270 nm	≥94 %
Density at 20° C	0.7893 ÷ 0.7899	Assay (GLC)	≥99.8 %	at 210 nm	≥25 %	at 290 nm	≥97 %
Boiling point	78.3 ÷ 78.8 ° C	<b>Fluorescence</b>		at 220 nm	≥50 %		
Acidity or alkalinity	≤0.0002 meq/g	at 254 nm	≤2 ppb	at 230 nm	≥75 %		

Code	Size	Packaging	Notes
414677	1 l	Glass bottle	Only for Italian market
4146772	1 l	Glass bottle	

**Ethanol absolute anhydrous > RS - Anhydrous - For analysis**

RS

Refractive index at 20°C	1.358 - 1.362	Alcohol content (20°C)	≥ 99.9 % V/V	Free acid (as CH <sub>3</sub> COOH)	≤ 10 mg/Kg
Water content (K.F.)	≤ 200 mg/Kg	Non volatile residue	≤ 10 mg/Kg	Aldehydes (as acetaldehyde)	≤ 3 mg/Kg
Colour	≤ 10 Hazen	Assay (GC)	≥ 99.8 %	Esters (as CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> )	≤ 25 mg/Kg

Code	Size	Packaging	Notes
P013A1010	200 ml	Bottle with septum	
P013A1016	1 l	Glass bottle	
P013A1021	2.5 l	Glass bottle	

**Ethanol absolute anhydrous > RS - VLSI For electronic use**

RS

Code	Size	Packaging	Notes
527681	1 l	Glass bottle	
527680	2.5 l	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

## Ethanol absolute anhydrous > RS - RSE - For electronic use

**RS**

Description .....	Clear colourless liquid	Chloride.....	≤0.2 ppm	Ca .....	≤0.5 ppm	Ni.....	≤0.01 ppm
Colour (APHA) .....	≤10	Carbonyl Compounds (CO) .....	≤10 ppm	Cd .....	≤0.01 ppm	Pb.....	≤0.02 ppm
Identification .....	Positive	Total phosphorus.....	≤0.1 ppm	Co.....	≤0.01 ppm	Pt.....	≤0.05 ppm
Water miscibility.....	Conform	Heavy metals (Pb).....	≤0.2 ppm	Cr.....	≤0.02 ppm	Sb.....	≤0.01 ppm
Ready carbonizable substances.....	Conform	Subst. reducing KMnO4.....	≤2.5 ppm	Cu.....	≤0.02 ppm	Sn.....	≤0.02 ppm
Density at 20° C .....	0.790 ÷ 0.793	Total sulphur .....	≤1 ppm	Fe.....	≤0.1 ppm	Sr.....	≤0.02 ppm
Boiling point.....	78.3 ÷ 78.8 ° C	Ag.....	≤0.02 ppm	Ga.....	≤0.02 ppm	Ti.....	≤0.05 ppm
Resistivity .....	≥0.5 Mohm cm	Al.....	≤0.05 ppm	In.....	≤0.02 ppm	Tl.....	≤0.05 ppm
Assay(alcohol.) at 20°C .....	≥99.9 %	As.....	≤0.01 ppm	K.....	≤0.1 ppm	V.....	≤0.05 ppm
Water (K.F.) .....	≤0.1 %	Au.....	≤0.05 ppm	Li.....	≤0.02 ppm	Zn.....	≤0.03 ppm
Residue on evaporation .....	≤10 ppm	B.....	≤0.01 ppm	Mg.....	≤0.1 ppm	Zr.....	≤0.05 ppm
Acidity (acetic acid).....	≤10 ppm	Ba.....	≤0.1 ppm	Mn.....	≤0.01 ppm		
Alcalinity (NH3).....	≤1 ppm	Be.....	≤0.02 ppm	Mo.....	≤0.05 ppm		
Methyl alcohol.....	≤100 ppm	Bi.....	≤0.02 ppm	Na.....	≤0.5 ppm		

Code	Size	Packaging	Notes
414587	1 l	Glass bottle	Only for Italian market
4145872	1 l	Glass bottle	
414583	2.5 l	Glass bottle	Only for Italian market
4145832	2.5 l	Glass bottle	

## Ethanol absolute anhydrous > RS - MOS For electronic use

**RS**

Description .....	Clear colourless liquid	Chloride.....	≤0.2 ppm	Ca .....	≤0.5 ppm	Ni.....	≤0.01 ppm
Colour (APHA) .....	≤10	Carbonyl Compounds (CO) .....	≤10 ppm	Cd .....	≤0.01 ppm	Pb.....	≤0.02 ppm
Identification .....	Positive	Phosphate.....	≤0.5 ppm	Co.....	≤0.01 ppm	Pt.....	≤0.05 ppm
Water miscibility.....	Conform	Heavy metals (Pb).....	≤0.2 ppm	Cr.....	≤0.02 ppm	Sb.....	≤0.01 ppm
Ready carbonizable substances.....	Conform	Subst. reducing KMnO4.....	≤2.5 ppm	Cu.....	≤0.02 ppm	Sn.....	≤0.02 ppm
Density at 20° C .....	0.7893 ÷ 0.7899	Total sulphur .....	≤1 ppm	Fe.....	≤0.1 ppm	Sr.....	≤0.02 ppm
Boiling point.....	78.3 ÷ 78.8 ° C	Ag.....	≤0.02 ppm	Ga.....	≤0.02 ppm	Ti.....	≤0.05 ppm
Resistivity .....	≥0.5 Mohm cm	Al.....	≤0.05 ppm	In.....	≤0.02 ppm	Tl.....	≤0.05 ppm
Assay (GLC) .....	≥99.9 %	As.....	≤0.01 ppm	K.....	≤0.1 ppm	V.....	≤0.05 ppm
Water (K.F.) .....	≤0.1 %	Au.....	≤0.05 ppm	Li.....	≤0.02 ppm	Zn.....	≤0.03 ppm
Residue on evaporation .....	≤10 ppm	B.....	≤0.01 ppm	Mg.....	≤0.1 ppm	Zr.....	≤0.05 ppm
Acidity (acetic acid).....	≤10 ppm	Ba.....	≤0.1 ppm	Mn.....	≤0.01 ppm		
Alcalinity (NH3).....	≤1 ppm	Be.....	≤0.02 ppm	Mo.....	≤0.05 ppm		
Methyl alcohol.....	≤100 ppm	Bi.....	≤0.02 ppm	Na.....	≤0.5 ppm		

Code	Size	Packaging	Notes
414692	2.5 l	Glass bottle	

## Ethanol absolute anhydrous > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear colourless liquid	Acidity (acetic acid).....	≤ 10 ppm	Assay (alcoholic) at 20°C.....	≥ 99.9 %v/v	Fe.....	≤ 0.1 ppm
Colour .....	≤ 10 APHA	Alcalinity (NH3).....	≤ 1 ppm	Volatil impurities.....	Conform	Mg.....	≤ 0.1 ppm
Identification (I.R.).....	Positive	Isopropyl alcohol .....	≤ 30 ppm	Al.....	≤ 0.5 ppm	Mn.....	≤ 0.02 ppm
Water miscibility.....	Complete	Methyl alcohol.....	≤ 100 ppm	B.....	≤ 0.02 ppm	Ni.....	≤ 0.02 ppm
Density at 20°C .....	0.7893 ÷ 0.7899	Benzene .....	≤ 2 ppm(v/v)	Ba.....	≤ 0.1 ppm	Pb.....	≤ 0.1 ppm
Boiling point.....	78.3 ÷ 78.8 ° C	Carbonyl compounds (CO).....	≤ 5 ppm	Ca.....	≤ 0.5 ppm	Sn.....	≤ 0.1 ppm
Refractive index at 20°C.....	1.3602 ÷ 1.3622	Subs. reducing KMnO4.....	≤ 3 ppm	Cd.....	≤ 0.05 ppm	Acetal + acetaldehyde.....	≤ 10 ppm(v/v)
Water (K.F.) .....	≤ 0.1 %	Heavy metals (Pb).....	≤ 1 ppm	Co.....	≤ 0.02 ppm		
Residue on evaporation .....	≤ 10 ppm	Absorbance UV (5cm, ref. water) .....	Conform	Cr.....	≤ 0.02 ppm		
Substances darkened by H2SO4 .....	Conform	Assay (CPG) .....	≥ 99.9 %	Cu.....	≤ 0.02 ppm		

Code	Size	Packaging	Notes
414601	1 l	Plastic bottle	Only for Italian market
414607	1 l	Glass bottle	Only for Italian market
4146012	1 l	Plastic bottle	
4146072	1 l	Glass bottle	
414605	2.5 l	Plastic bottle	Only for Italian market
414608	2.5 l	Glass bottle	Only for Italian market
4146052	2.5 l	Plastic bottle	
4146082	2.5 l	Glass bottle	
414603	5 l	Aluminium can	
414606	5 l	Plastic bottle	
524125	5 l	Plastic tank	
414604	10 l	Plastic tank	
414609	25 l	Plastic tank	
414602	200 l	Plastic drum	

**Ethanol absolute anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-BP-JP****ERBApharm**

Description .....	Clear colourless liquid	Boiling point.....	78 - 79 °C	Methyl alcohol.....	≤ 200 ppm(v/v)	At 240 nm .....	≤ 0.40 AU
Identification (I.R.).....	Positive	Residue on evaporation .....	≤ 25 ppm(m/v)	Acetal + acetaldehyde.....	≤ 10 ppm(v/v)	From 250 to 260 nm.....	≤ 0.30 AU
Color of solution.....	Pass test	Assay (alcoholometric) at 15,56°C.....	≥ 99.5 % (v/v)	Benzene .....	≤ 2 ppm(v/v)	From 270 to 340 nm.....	≤ 0.10 AU
Clarity of solution.....	Pass test	Assay (alcoholometric) at 20°C.....	≥ 99.5 % (v/v)	Total other impurities .....	≤ 300 ppm(v/v)	235 - 340 nm.....	Smooth curve
Density at 20°C .....	0.790 - 0.793	Acidity or alkalinity.....	≤ 30 ppm	Water (K.F.).....	≤ 0.1 %	Origin (BSE/TSE).....	Vegetable
Density at 15.56°C .....	≤ 0.7962	Volatil impurities.....	Pass test	Absorbance UV (5cm, ref. water) ..	Pass test	Residual solvents (Current ICH).....	Conform

Code	Size	Packaging	Notes
529121	1 l	Glass bottle	
308661	2.5 l	Plastic bottle	Only for Italian market
308662	2.5 l	Glass bottle	Only for Italian market
3086612	2.5 l	Plastic bottle	
3086622	2.5 l	Glass bottle	
529122	5 l	Plastic tank	
529124	10 l	Plastic tank	
308664	25 l	Polythene-metal drum	
308667	25 l	Plastic tank	
308663	200 l	Plastic drum	
529125	200 l	Plastic drum	

**Ethanol absolute anhydrous > RE - Pure****RE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.7866 ÷ 0.7926	Water (K.F.) .....	≤ 0.1 %	Acidity (acetic acid).....	≤ 50 ppm
Identification .....	Positive	Boiling point.....	78.0 ÷ 79.0 ° C	Residue on evaporation .....	≤ 30 ppm	Assay(alcohol.) at 20°C .....	≥ 99.9 % (v/v)

Code	Size	Packaging	Notes
308602	1 l	Plastic bottle	Only for Italian market
308607	1 l	Glass bottle	Only for Italian market
308608	1 l	Plastic bottle	Origin : synthesis
3086022	1 l	Plastic bottle	
3086072	1 l	Glass bottle	
308603	2.5 l	Glass bottle	Only for Italian market
308605	2.5 l	Plastic bottle	Only for Italian market
3086032	2.5 l	Glass bottle	
3086052	2.5 l	Plastic bottle	
528131	5 l	Plastic tank	
308609	10 l	Plastic tank	
308601	25 l	Metal drum	
308604	25 l	Plastic tank	
308600	200 l	Metal drum	



**Ethanol 96°**  
Etanolo 96° • Ethanol 96° • Etanol 96°

Synonym:  
Ethyl alcohol 96°

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight: 46,07  
CAS: 64-17-5

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Ethanol 96° > RS - For HPLC - Isocratic Grade

RS

Description .....	Clear colourless liquid	Boiling point.....	78.0 ÷ 79.0 °C	%v/v	At 280 nm.....	≥ 98 %
Colour .....	≤ 10 APHA	Acidity .....	≤ 0.0002 meq/g	<b>Transmittance</b>	Assay (CPG).....	≥ 99.8 %
Identification (I.R.).....	Positive	Residue on evaporation .....	≤ 5 ppm	At 210 nm.....	≥ 30 %	
Density at 20°C .....	0.8050 ÷ 0.8124	Assay (alcoholic) at 20°C.....	96.0 ÷ 96.3	At 254 nm.....	≥ 96 %	

Code	Size	Packaging	Notes
4145412	1 l	Glass bottle	
4145422	2.5 l	Glass bottle	
414541	1 l	Glass bottle	Only for Italian market
414542	2.5 l	Glass bottle	Only for Italian market

### Ethanol 96° > RS - SPECTROSOL - For optical spectroscopy

RS

Description .....	Clear colourless liquid	Acidity or alkalinity.....	≤0.0005 meq/g	at 365 nm .....	≤2 ppb	at 250 nm .....	≥90 %
Colour (APHA) .....	≤10	Residue on evaporation .....	≤10 ppm	<b>U.V. Transmittance</b>		at 270 nm .....	≥98 %
Identification .....	Positive	Assay(alcohol.) at 20°C .....	≥96.0 %(v/v)	at 210 nm .....	≥35 %		
Density at 20° C .....	0.8050 ÷ 0.8124	<b>Fluorescence</b>		at 220 nm .....	≥55 %		
Boiling point.....	78.0 ÷ 79.0 °C	at 254 nm .....	≤2 ppb	at 230 nm .....	≥72 %		

Code	Size	Packaging	Notes
414667	1 l	Glass bottle	Only for Italian market
4146672	1 l	Glass bottle	

### Ethanol 96° > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611002501	1 l	Glass bottle	Ref Ph.Eur 1002501

### Ethanol 96° > RPE - For analysis - ACS - Reag. Ph.Eur.

RPE

Description .....	Clear liquid	Density at 20° C .....	0.8050 ÷ 0.8124	Subst. reducing KMnO4.....	≤3 ppm	Mn .....	≤0.02 ppm
Colour (APHA) .....	≤10	Boiling point.....	78.0 ÷ 79.0 °C	Ba .....	≤0.1 ppm	Ni .....	≤0.02 ppm
Identification .....	Positive	Residue on evaporation .....	≤10 ppm	Ca .....	≤0.5 ppm	Pb .....	≤0.1 ppm
Appearance of solution.....	Conform USP	Acidity (acetic acid).....	≤30 ppm	Cd .....	≤0.05 ppm	Sn .....	≤0.1 ppm
Absorbance .....	Conform Ph Eur	Alcalinity (NH3).....	≤0.0002 meq/g	Co .....	≤0.02 ppm	Zn .....	≤0.1 ppm
Volatile impurities.....	Conform Ph Eur	Alcole isopropilico-acetone .....	Conform	Cr .....	≤0.02 ppm	Assay(alcohol.) at 20°C.....	96.0 ÷ 96.9 % (v/v)
Water miscibility.....	Conform ACS	Methyl alcohol.....	≤0.1 %	Cu .....	≤0.02 ppm	Assay (GLC) .....	≥95.0 %
Substances darkened by sulphuric acid .....	Conform ACS	Carbonyl Compounds (CO).....	≤5 ppm	Fe .....	≤0.1 ppm		
		Acetal + acetaldehyde.....	≤ 10 ppm(v/v)	Mg .....	≤0.1 ppm		

Code	Size	Packaging	Notes
414634	1 l	Plastic bottle	Only for Italian market
414637	1 l	Glass bottle	Only for Italian market
4146342	1 l	Plastic bottle	
4146372	1 l	Glass bottle	
414631	2.5 l	Glass bottle	Only for Italian market
414632	2.5 l	Plastic bottle	Only for Italian market
4146312	2.5 l	Glass bottle	
4146322	2.5 l	Plastic bottle	
414635	5 l	Plastic tank	
414638	10 l	Plastic tank	
414639	25 l	Plastic tank	
414633	200 l	Plastic drum	

**Ethanol 96° > ERBApharm - According to pharmacopoeia : Ph.Eur.- Microbiological tested****ERBApharm**

Description .....	Clear colourless liquid	Volatil impurities.....	Pass test	%v/v	CFU/100ml
Identification (I.R.).....	Positive	Density at 20°C .....	0.805 - 0.812	Origin (BSE/TSE).....	Vegetable
Appearance of solution.....	Pass test	Boiling point.....	78 - 79 °C	Total aerobic microbial count (TAMC)....	≤ 5
Acidity or alkalinity.....	Pass test	Residue on evaporation ...	≤ 0.0025 % (m/v)	CFU/100ml	
Absorbance UV (5cm, ref. water) ..	Pass test	Assay (alcoholometric) at 20°C...	95.1 - 96.9	Total yeasts/mould count (TYMC).....	≤ 5

Code	Size	Packaging	Notes
524135	5 l	Plastic tank	
524132	25 l	Plastic tank	

**Ethanol 96° > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP****ERBApharm**

Description .....	Clear colourless liquid	Assay (densim.) at 15.5°	94.9 ÷ 96.0 % v/v	Color of solution .....	Conform USP-NF	Total other impurities .....	≤ 300 ppm(v/v)
Identification .....	Positive	Assay(alcohol.) at 20°C.	95.1 ÷ 96.9 % v/v	Clarity of solution.....	Conform USP-NF	Absorbance UV (5cm, ref. water) ..	Pass test
Density at 20° C .....	0.805 ÷ 0.812	Appearance of solution ....	Conform Ph.Eur.	Volatil impurities.....	Pass test Ph.Eur.	At 240 nm .....	≤ 0.40 AU
Densità a 15.5°C .....	0.812 ÷ 0.816	Boiling point.....	~ 78 ° C	Methyl alcohol.....	≤ 200 ppm(v/v)	From 250 to 260 nm.....	≤ 0.30 AU
Acidity or alkalinity.....	Conform Ph.Eur.	Origin (BSE/TSE).....	Vegetable	Acetal + acetaldehyde.....	≤ 10 ppm(v/v)	From 270 to 340 nm.....	≤ 0.10 AU
Residue on evaporation .....	≤ 0.0025 % m/v	Residual solvents (Current ICH).....	Conform	Benzene .....	≤ 2 ppm(v/v)	235 - 340 nm.....	Smooth curve

Code	Size	Packaging	Notes
308644	1 l	Plastic bottle	Only for Italian market
308647	1 l	Glass bottle	Only for Italian market
3086442	1 l	Plastic bottle	
3086472	1 l	Glass bottle	
308641	2.5 l	Glass bottle	Only for Italian market
308649	2.5 l	Plastic bottle	Only for Italian market
3086412	2.5 l	Glass bottle	
3086492	2.5 l	Plastic bottle	
529141	5 l	Plastic tank	
308646	10 l	Plastic tank	
308645	25 l	Plastic tank	
308648	27 l	Polythene-metal drum	
308640	200 l	Plastic drum	

**Ethanol 96° > RE - Pure****RE**

Description .....	Clear colourless liquid	Water miscibility.....	Complete	Assay GLC .....	≥ 99 %	Assay (alcohol).....	95 ÷ 96.9 % (v/v)
Colour .....	≤ 10 APHA	Acidity (acetic ac).....	≤ 0.005 %	Density .....	0.805 ÷ 0.8125	Assay (GLC) .....	≥ 99 %
Identification .....	Positive	Boiling point.....	78 ÷ 79.5 °C	Residue on evaporation .....	≤ 25 ppm		

Code	Size	Packaging	Notes
528151	5 l	Plastic tank	
528152	10 l	Plastic tank	
528154	20 l	Plastic tank	
529152	25 l	Plastic tank	
528153	200 l	Metal drum	

**Ethanol 70 % v/v**

Etanolo 70 % v/v • Ethanol 70 % v/v • Etanol 70 % v/v

Synonym:  
Ethyl alcohol 70%

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight: 46,07  
CAS: 64-17-5

**Classification transport**

ONU: 1170  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

**Ethanol 70 % v/v > ERBApharm - According to pharmacopoeia : Ph.Eur.****ERBApharm**

Description .....	Clear colourless liquid	Identity (IR).....	Positive	Assay (alcohol).....	69 ÷ 71 % (v/v)
Identification (I.R.).....	Positif	Assay (alcoholometric) at 20°C.....	69 ÷ 71 %v/v		

Code	Size	Packaging	Notes
529187	500 ml	Spray bottle	20 units / box
529189	5 l	Plastic tank	
529183	200 l	Plastic drum	

## Ethanol 70 % v/v > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.

**ERBApharm**

Description ..... Clear colourless liquid    Residue on evaporation ..... ≤ 25 ppm(m/v)    Apparent density ..... 882.2 ÷ 887.1 kg/m<sup>3</sup>  
 Volatil impurities (GC) ..... Passed test    Acidity (acetic acid) ..... ≤ 30 ppm    Assay (alcohometric) at 20°C ..... 69.0 ÷ 71.0 %v/v

Code	Size	Packaging	Notes
529184	1 l	Spray bottle	6 units / box

## Ethanol 70 % v/v > RE - Pure

**RE**

Description ..... Clear liquid    Identification ..... Positive    Residue on evaporation ..... ≤ 30 ppm    Substances reducing KMnO<sub>4</sub> (O) ..... ≤ 3 ppm  
 Identity (IR) ..... Positive    Acidity ..... ≤ 0.003 %    Water miscibility ..... Conform ACS    Assay(alcohol.) at 20°C ..... ≥ 70 % (v/v)  
 Colour ..... Incolore    Alkalinity ..... ≤ 3 ppm    Substances darkened by sulphuric acid .....  
 Assay (alcohol) ..... 69 ÷ 71 % (v/v)    Methanol ..... ≤ 100 ppm    Conform ACS

Code	Size	Packaging	Notes
308771	2.5 l	Bottle	
528170	5 l	Plastic tank	
529186	10 l	Plastic tank	
308775	25 l	Plastic tank	



## Ethanol 60 % v/v

Etanolo 60 % v/v • Ethanol 60 % v/v • Etanol 60 % v/v

Synonym:  
Ethyl alcohol 60%

C<sub>2</sub>H<sub>5</sub>OH  
 Molecular Weight: 46,07  
 CAS: 64-17-5  
 EEC-N: 200-578-6

**Classification transport**  
 ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H319  
 P210-P241-P264-P303+P361+P353-  
 P305+P351+P338-P403+P235

## Ethanol 60 % v/v > RE - Pure

**RE**

Description ..... Clear colourless liquid    Assay (alcohol) ..... 59.0 ÷ 61.0 % (v/v)

Code	Size	Packaging	Notes
529180	5 l	Plastic tank	



## Ethanol 50% v/v

Etanolo 50% v/v • Ethanol 50% v/v • Etanol 50% v/v

Synonym:  
Ethyl alcohol 50%

C<sub>2</sub>H<sub>5</sub>OH  
 Molecular Weight: 46,07  
 CAS: 64-17-5

**Classification transport**  
 ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H319  
 P210-P241-P264-P303+P361+P353-  
 P305+P351+P338-P403+P235

## Ethanol 50% v/v > ERBApharm - Prepared from raw material according Ph.Eur

**ERBApharm**

Description ..... Clear colourless liquid    Acidity (acetic acid) ..... ≤ 30 ppm    Assay (alcohometric) at 20°C ..... 49.0 - 51.0 %v/v  
 Residue on evaporation ..... ≤ 25 ppm    Volatil impurities (GC) ..... Pass test

Code	Size	Packaging	Notes
529261	5 l	Plastic tank	

**Ethanol absolute denaturated**

Etanol assoluto denaturato • Ethanol absolu dénaturé • Etanol absoluto desnaturalizado

Synonym:

Ethyl alcohol absolute denaturated

C<sub>2</sub>H<sub>5</sub>OH

Molecular Weight: 46,07

CAS: 64-17-5

**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group II

**Danger**

H225-H319

P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235**Ethanol absolute denaturated > RE - Pure - According to European regulation****RE**

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... 0.787 ÷ 0.793 Assay (alcohol) ..... ≥ 99.2 % (v/v)

Code	Size	Packaging	Notes
528031	1 l	Glass bottle	
528035	2.5 l	Glass bottle	
528033	5 l	Metal tank	
528034	5 l	Plastic tank	
528036	10 l	Plastic tank	
528032	25 l	Plastic tank	

**According to the commission implementing regulation (EU) No 162/2013 of 21 February 2013 amending the Annex to Regulation (EC) No 31 99/93 . Eurodenaturant : 3 litres of isopropyl alcohol (IPA), 3 litres of methyl ethyl ketone (MEK) and of 1 gram of denatonium benz oate per hectolitre of absolute alcohol**

**Ethanol absolute denaturated > RE - Pure - According to italian denaturing procedure****RE**Description ..... Clear pink liquid Density at 15° C ..... ~ 0.796 Assay(alcohol.) at 20°C ..... ≥ 99.5 % (V/V)  
Identification ..... Positive Boiling point..... 77 ÷ 79 °C

Code	Size	Packaging	Notes
308651	1 l	Plastic bottle	
308653	5 l	Plastic bottle	
308656	10 l	Plastic tank	
308655	25 l	Metal tank	
308652	200 l	Metal drum	

**Denaturing procedures authorized only on Italian market**

**Ethanol 95° denaturated**

Etanol 95° denaturato • Ethanol 95° dénaturé • Etanol 95° desnaturalizado

Synonym:

Ethyl alcohol 95° denaturated

C<sub>2</sub>H<sub>5</sub>OH

Molecular Weight: 46,07

CAS: 64-17-5

**Classification transport**

ONU: 1170

Transport Hazard class: 3

Packing group II

**Danger**

H225-H319

P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235**Ethanol 95° denaturated > RE - Pure - According to European regulation****RE**

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... 0.804 ÷ 0.812 Assay (alcohol) ..... 94.8 ÷ 96.8 % (v/v)

Code	Size	Packaging	Notes
528181	1 l	Glass bottle	
528185	5 l	Plastic tank	
528182	10 l	Plastic tank	
528183	25 l	Plastic tank	
528184	200 l	Metal drum	

**According to the commission implementing regulation (EU) No 162/2013 of 21 February 2013 amending the Annex to Regulation (EC) No 31 99/93 . Eurodenaturant : 3 litres of isopropyl alcohol (IPA), 3 litres of methyl ethyl ketone (MEK) and of 1 gram of denatonium benz oate per hectolitre of absolute alcohol**



## Ethanol 94° denaturated

Etanolo 94° denaturato • Ethanol 94° dénaturé • Etanol 94° desnaturalizado

Synonym:  
Ethyl alcohol 94° denaturated

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight: 46,07  
CAS: 64-17-5

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Ethanol 94° denaturated > RE - Pure - According to italian denaturing procedure

**RE**

Description .....Clear pink liquid Identification .....Positive Density at 15° C .....0.815 ÷ 0.825 Assay(alcohol.) at 20°C .....92 ÷ 96 %

Code	Size	Packaging	Notes
308621	1 l	Plastic bottle	
308623	5 l	Plastic bottle	
308625	10 l	Plastic tank	
308624	25 l	Metal tank	

**Denaturing procedures authorized only on Italian market**



## Ethanol 90° denaturated

Etanolo 90° denaturato • Ethanol 90° dénaturé • Etanol 90° desnaturalizado

Synonym:  
Ethyl alcohol 90° denaturated

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight: 46,07  
CAS: 64-17-5

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Ethanol 90° denaturated > RE - Pure - According to italian denaturing procedure

**RE**

Description .....Clear pink liquid Identification .....Positive Density at 15° C .....0.830 ÷ 0.840 Assay(alcohol.) at 20°C .....88 ÷ 92 %

Code	Size	Packaging	Notes
308681	1 l	Plastic bottle	
308683	5 l	Plastic bottle	
308682	25 l	Metal tank	
308687	160 kg	Metal drum	

**Denaturing procedures authorized only on Italian market**



## Ethanol 70°modified

Etanolo 70° modificato • Ethanol 70° modifié • Etanol 70° modificada

Synonym:  
Ethyl alcohol 70° denaturated

C<sub>2</sub>H<sub>5</sub>OH  
Molecular Weight: 46,07  
CAS: 64-17-5

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Ethanol 70°modified > RE - Pure

**RE**

Assay .....69.5 ÷ 71.5 % v/v Density at 20°C .....0.881 ÷ 0.886

Code	Size	Packaging	Notes
528191	5 l	Plastic tank	
528192	20 l	Plastic tank	

**Colored Yellow. Modified with camphor and tartrazine**





### Ethanol with 5% Isopropanol (w/w)

Etanolo con 5% Isopropanolo (m/m) • Ethanol avec 5% Isopropanol (m/m) • Etanol con 5% propanol-2 (p/p)

C<sub>2</sub>H<sub>5</sub>OH

Molecular Weight: 46,07

CAS: 64-17-5

#### Classification transport

ONU: 1987

Transport Hazard class: 3

Packing group II



#### Danger

H225-H319

P210-P241-P264-P303+P361+P353-

P305+P351+P338-P403+P235

### Ethanol with 5% Isopropanol (w/w) > RS - For analysis

RS

Description ..... Clear colourless liquid

Identification A ..... Positive

Identification B ..... Positive

Appearance of solution ..... Conform Ph.Eur.

Acidity or alkalinity ..... Conform Ph.Eur.

Relative density ..... 0.8034 ÷ 0.8085 Ph.Eur.

#### Absorbance

at 240 nm ..... ≤ 0.40 AU

at 250 - 260 nm ..... ≤ 0.30 AU

at 270 - 340 nm ..... ≤ 0.10 AU

Volatile impurities ..... Conform Ph.Eur.

Methanol ..... ≤ 200 ppm

Acetaldehyde + acetal ..... ≤ 10 ppm

Benzene ..... ≤ 2 ppm

Other impurities ..... ≤ 300 ppm

Residue on evaporation ..... ≤ 25 ppm

Assay (GC) ..... ≤ 5.5 % m/m

Microbial tests ..... ≤ 100 cfu/ml

Code	Size	Packaging	Notes
414591	5 kg	Plastic tank	



### Ethanol-d6 anhydrous

Etanolo anidro-d6 • Ethanol anhydre-d6 • Etanol anhidro-d6

Synonym:

*Ethanol-d6*

*Ethyl alcohol-d6*

C<sub>2</sub>D<sub>6</sub>OD

Molecular Weight: 52,11

CAS: 1516-08-1

EEC-N: 216-162-2

#### Classification transport

ONU: 1170

Transport Hazard class: 3

Packing group II



#### Danger

H225

P210-P241-P243-P280-P303+P361+P353-

P403+P235

### Ethanol-d6 anhydrous > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5262A	2 x 1 ml	Glass ampoule	



### Ethanolamine

Etanolamina • Ethanolamine • Etanolamina

Synonym:

*2-Aminoethanol*

NH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH

Molecular Weight: 61,08

CAS: 141-43-5

EEC-N: 205-483-3

#### Classification transport

ONU: 2491

Transport Hazard class: 8

Packing group III



#### Danger

H302-H312-H332-H314

P264-P271-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

### Ethanolamine > RPE - For analysis

RPE

Description ..... Clear colourless liquid

Identification ..... Positive

Water miscibility ..... Conform

Alcohol miscibility ..... Complete

Refractive index at 20°C: 1.4491 ÷ 1.4591

Boiling point ..... 169.5 ÷ 170.5 °C

Melting point ..... 9.8 ÷ 10.8 °C

Chloride ..... ≤ 10 ppm

Diethanolamine ..... ≤ 0.5 %

Heavy metals (Pb) ..... ≤ 2 ppm

Sulphate ..... ≤ 20 ppm

Triethanolamine ..... ≤ 0.5 %

Fe ..... ≤ 1 ppm

Assay (alkalimetric) ..... ≥ 99 %

Code	Size	Packaging	Notes
447351	1 l	Glass bottle	
447352	30 kg	Aluminium can	

**Hygroscopic product. Store well sealed in a dry place**



## Ethyl acetate

Etile acetato • Ethyle acétate • Etilo acetato

CH<sub>3</sub>COOC<sub>2</sub>H<sub>5</sub>  
Molecular Weight: 88,11  
CAS: 141-78-6  
EEC-N: 205-500-4

**Classification transport**  
ONU: 1173  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319-H336-HEU066  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### Ethyl acetate > RS - For LC/MS

RS

Description ..... Clear colourless liquid	Acidity (acetic acid)..... ≤ 0.0030 %	At 300 nm ..... ≥ 98 %	Mg ..... ≤ 50 ppb
Colour ..... ≤ 10 APHA	Alcalinity (NH <sub>3</sub> )..... ≤ 0.0005 %	<b>Metals compounds</b>	K ..... ≤ 50 ppb
Identification (I.R.)..... Positive	Assay (CPG) ..... ≥ 99.95 %	Al ..... ≤ 50 ppb	
Refractive index at 20°C..... 1.370 - 1.374	<b>Transmittance</b>	Fe ..... ≤ 50 ppb	
Water (K.F.)..... ≤ 200 ppm	At 260 nm ..... ≥ 75 %	Na ..... ≤ 50 ppb	
Residue on evaporation ..... ≤ 2 ppm	At 275 nm ..... ≥ 97 %	Ca ..... ≤ 50 ppb	

Code	Size	Packaging	Notes
448383	1 l	Glass bottle	
448384	2.5 l	Glass bottle	

### Ethyl acetate > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid	Boiling point..... 76.9 ÷ 77.4 ° C	Assay (GLC) ..... ≥99.9 %	at 280 nm ..... ≥98 %
Identification ..... Positive	Water (K.F.)..... ≤200 ppm	<b>U.V. Transmittance</b>	Methyl alcohol..... ≤ 100 ppm
Density at 20° C ..... 0.898 ÷ 0.902	Residue on evaporation ..... ≤2 ppm	at 260 nm ..... ≥76 %	Ethyl alcohol ..... ≤ 400 ppm
Refractive index at 20°C. 1.3699 ÷ 1.3739	Acidity or alkalinity..... ≤0.0015 meq/g	at 270 nm ..... ≥94 %	

Code	Size	Packaging	Notes
412611000	1 l	Glass bottle	
412612000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

### Ethyl acetate > RS - For preparative HPLC - Reag.Ph.Eur.

RS

Description ..... Clear colourless liquid	Refractive index at 20°C. 1.3699 ÷ 1.3739	Residue on evaporation ..... ≤ 5 ppm	<b>U.V. Transmittance</b>
Identification ..... Positive	Boiling point..... 76.9 ÷ 77.4 ° C	Assay (GLC) ..... ≥ 99.9 %	at 265 nm ..... ≥ 80 %
Density at 20° C ..... 0.901 ÷ 0.902	Water (K.F.)..... ≤ 300 ppm		at 280 nm ..... ≥ 97 %

Code	Size	Packaging	Notes
448211	2.5 l	Glass bottle	

### Ethyl acetate > RS - ATRASOL - For analysis of volatile traces

RS

Refractive index at 20°C..... 1.370 - 1.374	Non volatile residue ..... ≤ 2 mg/Kg	GC ( FID ) - NC Atrasol ..... Conform	<b>Retention time range over toluène</b>
Water content (K.F.)..... ≤ 150 mg/Kg	Ethanol ..... ≤ 200 mg/Kg	GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l	
Colour ..... ≤ 10 Hazen	Assay (GC) ..... ≥ 99.8 %	<b>Retention time trichlorobenzene to mirex</b>	
Methanol ..... ≤ 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH)..... ≤ 30 mg/Kg	GC-FID.Individ. peak (hexadecane) . ≤ 5 µg/l	

Code	Size	Packaging	Notes
P0023216	1 l	Glass bottle	
P0023221	2.5 l	Glass bottle	

### Ethyl acetate > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid	Assay (GLC) ..... ≥ 99.8 %	Free acid (as CH <sub>3</sub> COOH) ..... ≤ 30 mg/kg
Identification ..... Positive	Water ..... ≤ 0.03 %	GC-ECD (Lindane standard) ..... ≤ 3 ng/l
Colour ..... ≤ 10 hazen	Not volatile residue..... ≤ 2 mg/kg	GC-NPD (Ethylparathion standard) ..... ≤ 3 ng/l

Code	Size	Packaging	Notes
448351	1 l	Glass bottle	
448352000	2.5 l	Glass bottle	

**Ethyl acetate > RS - SPECTROSOL - For optical spectroscopy**

RS

Description .....	Clear liquid	Colour .....	≤ 10 Hazen	Acidity .....	≤0.0005 meq/g	<b>U.V. Transmittance</b>	
Colour (APHA) .....	≤10	Density at 20° C .....	0.898 ÷ 0.902	Ethanol .....	≤ 200 mg/Kg	at 255 nm .....	≥15 %
Water content (K.F.) .....	≤ 100 mg/Kg	Refractive index at 20°C. 1.3699 ÷ 1.3739		Alcalinity .....	≤0.0002 meq/g	at 260 nm .....	≥75 %
Identification .....	Positive	Assay (GC) .....	≥ 99.8 %	Methanol .....	≤ 100 mg/Kg	at 270 nm .....	≥95 %
Non volatile residue .....	≤ 10 mg/Kg	Boiling point .....	76.9 ÷ 77.4 ° C			at 280 nm .....	≥98 %

Code	Size	Packaging	Notes
448271	1 l	Glass bottle	
448272	2.5 l	Glass bottle	

**Ethyl acetate > RS - Anhydrous - For analysis**

RS

Refractive index at 20°C .....	1.37 - 1.374	Colour .....	≤ 10 Hazen	Methanol .....	≤ 100 mg/Kg	Methyl acetate .....	≤ 0.10 %
Water content (K.F.) .....	≤ 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH) .....	≤ 30 mg/Kg	Ethanol .....	≤ 400 mg/Kg		
Non volatile residue .....	≤ 10 mg/Kg	Assay (GC) .....	≥ 99.8 %	Density d20/4 .....	0.898 - 0.902		

Code	Size	Packaging	Notes
P0021010	200 ml	Bottle with septum	
P0021016	1 l	Glass bottle	
P0021021	2.5 l	Glass bottle	
P00210T21	2.5 l	Glass bottle	On molecular sieves 4A, Water content < 20ppm

**Ethyl acetate > RS - RSE - For electronic use**

RS

Description .....	Clear liquid	Ag .....	≤0.02 ppm	Cr .....	≤0.01 ppm	Ni .....	≤0.01 ppm
Colour (APHA) .....	≤10	Al .....	≤0.05 ppm	Cu .....	≤0.01 ppm	Pb .....	≤0.02 ppm
Identification .....	Positive	As .....	≤0.01 ppm	Fe .....	≤0.02 ppm	Pt .....	≤0.05 ppm
Ready carbonizable substances .....	Conform	Au .....	≤0.05 ppm	Ga .....	≤0.02 ppm	Sb .....	≤0.01 ppm
Assay (GLC) .....	≥99.9 %	B .....	≤0.01 ppm	In .....	≤0.02 ppm	Sn .....	≤0.02 ppm
Resistivity .....	≥20 Mohm.cm	Ba .....	≤0.1 ppm	K .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Density at 20° C .....	0.898 ÷ 0.902	Be .....	≤0.02 ppm	Li .....	≤0.02 ppm	Ti .....	≤0.05 ppm
Boiling point .....	76.6 ÷ 77.6 ° C	Bi .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Water (K.F.) .....	≤500 ppm	Ca .....	≤0.2 ppm	Mn .....	≤0.01 ppm	V .....	≤0.05 ppm
Residue on evaporation .....	≤10 ppm	Cd .....	≤0.01 ppm	Mo .....	≤0.05 ppm	Zn .....	≤0.02 ppm
Acidity (acetic acid) .....	≤50 ppm	Co .....	≤0.01 ppm	Na .....	≤0.2 ppm	Zr .....	≤0.05 ppm

Code	Size	Packaging	Notes
448307	1 l	Glass bottle	
448308	2.5 l	Glass bottle	
448306	5 l	Metal tank	

**Ethyl acetate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP**

RPE

Description .....	Clear liquid	Refractive index at 20°C. 1.3699 ÷ 1.3739	Al .....	≤0.5 ppm	Fe .....	≤0.02 ppm	
Colour (APHA) .....	≤10	Boiling point .....	76.9 ÷ 77.4 ° C	B .....	≤0.02 ppm	Mg .....	≤0.1 ppm
Identification (I.R.) .....	Conform	Water (K.F.) .....	≤300 ppm	Ba .....	≤0.1 ppm	Mn .....	≤0.02 ppm
Alcohol miscibility .....	Complete	Residue on evaporation .....	≤10 ppm	Ca .....	≤0.5 ppm	Ni .....	≤0.02 ppm
Foreign esters .....	Conform	Acidity .....	≤0.0009 meq/g	Cd .....	≤0.05 ppm	Pb .....	≤0.02 ppm
Water solubility .....	Conform	Ethyl alcohol .....	≤0.05 %	Co .....	≤0.02 ppm	Sn .....	≤0.1 ppm
Substances darkened by sulphuric acid .....	Conform	Methyl alcohol .....	≤0.01 %	Cr .....	≤0.02 ppm	Zn .....	≤0.02 ppm
Density at 20° C .....	0.901 ÷ 0.902	Methyl acetate .....	≤0.1 %	Cu .....	≤0.02 ppm	Assay (GLC) .....	≥99.9 %

Code	Size	Packaging	Notes
448251	1 l	Glass bottle	
448256	2.5 l	Glass bottle	
448254	5 l	Plastic tank	
448252	10 l	Metal tank	
448258	10 l	Plastic tank	
448253	24 kg	Metal drum	
448255	180 kg	Metal drum	

## Ethyl acetate > ERBApharm - According to pharmacopoeia : DAB-NF-Ph.Eur.

**ERBApharm**

Description .....	Clear colourless liquid	Density at 20°C .....	0.898 ÷ 0.902	Boiling point .....	76 ÷ 78 °C	Residual solvents (Current ICH).....	Conform
Identification .....	Positive	Methyl compounds.....	Conform USP-NF	Cromatographic purity .....	≥99.5 %	Organic volatile impurities	Conform USP-NF
Colour .....	≤ 10 APHA	Residue solvents .....	Conform USP-NF	Acidity (acetic acid).....	≤ 0.005 %	Related compounds.....	≤ 0.2 %
Acidity .....	Conform USP-NF	Density at 25° C .....	0.894 ÷ 0.898	Assay (saponification).....	99.0 ÷ 100.5 %	Ethyl alcohol .....	≤ 0.05 %
Appearance .....	Conform Ph.Eur.	Refractive index at 20°C.....	1.370 ÷ 1.373	Origin (BSE/TSE).....	Synthesis	Titolo (saponificazione).....	99.0 ÷ 100.5 %
Ready carbonizable substances.....	Conform USP-NF	Residue on evaporation .....	≤0.02 %	Water (K.F.) .....	≤ 0.04 %	Assay (GLC) .....	≥ 99.8 %

Code	Size	Packaging	Notes
341506	1 l	Glass bottle	
341503	2.5 l	Glass bottle	
341502	24 kg	Metal drum	
529221	25 l	Aluminium can	
529222	200 l	Metal drum	

## Ethyl acetate > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 20°C .....	0.898 ÷ 0.902	Acidity (acetic ac) .....	≤ 30 ppm	Assay (GLC) .....	≥ 99.8 %
Colour .....	≤ 10 APHA	Boiling point.....	76.0 ÷ 77.5 °C	Residue on evaporation .....	≤ 20 ppm	Ethyl alcohol .....	≤ 0.04 %
Identity (IR).....	Positive	Refractive index at 20°C.....	1.3699 ÷ 1.3739	Water (K.F.) .....	≤ 500 ppm		

Code	Size	Packaging	Notes
508221	1 l	Glass bottle	
508222	2.5 l	Glass bottle	
528295	5 l	Plastic tank	
528299	10 l	Metal tank	
528294	25 l	Metal drum	
528296	25 l	Plastic tank	
528297	200 l	Metal drum	



## Ethyl acetoacetate

Etile acetoacetato • Ethyle acétoacétate • Etilo acetoacetato

Synonym:  
Acetoacetic ester

CH3CH2OCOCH2COCH3  
Molecular Weight: 130,14  
CAS: 141-97-9  
EEC-N: 205-516-1



### Warning

H319

P264-P280i-P305+P351+P338-P337+P313

## Ethyl acetoacetate > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 20° C .....	1.021 ÷ 1.029	Boiling point.....	179 ÷ 181 °C	Assay (GLC) .....	≥ 98 %
Identification .....	Positive	Refractive index at 20°C.....	1.415 ÷ 1.424	Water (K.F.) .....	≤ 0.1 %		

Code	Size	Packaging	Notes
341751	1 l	Glass bottle	

Ethyl alcohol 50% ▶ Ethanol 50% v/v

Ethyl alcohol 60% ▶ Ethanol 60 % v/v

Ethyl alcohol 70% ▶ Ethanol 70 % v/v

Ethyl alcohol 96° ▶ Ethanol 96°

Ethyl alcohol absolute anhydrous ▶ Ethanol absolute anhydrous

Ethyl alcohol 70° denaturated ▶ Ethanol 70°modified

Ethyl alcohol 90° denaturated ▶ Ethanol 90° denaturated

Ethyl alcohol 94° denaturated ▶ Ethanol 94° denaturated

Ethyl alcohol 95° denaturated ▶ Ethanol 95° denaturated

Ethyl alcohol absolute denaturated ▶ Ethanol absolute denaturated

Ethyl diisopropylamine ▶ n,n-Diisopropylethylamine

Ethylene dichloride ▶ 1,2-Dichloroethane

**Ethylenediamine**

Etilendiamina • Ethylènediamine • Etilendiamina

Synonym:

1,2-Diaminoethane

$\text{NH}_2\text{CH}_2\text{CH}_2\text{NH}_2$   
Molecular Weight: 60,1  
CAS: 107-15-3  
EEC-N: 203-468-6

**Classification transport**  
ONU: 1604  
Transport Hazard class: 8  
Packing group II

**Danger**

H226-H302-H311-H332-H314-H334-H317  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P342+P311a-P403+P235

**Ethylenediamine > RPE - For analysis****RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 0.890 ÷ 0.906    Melting point ..... 10 ÷ 12 °C    Fe ..... ≤ 5 ppm  
Identification ..... Positive    Refractive index at 20°C. 1.4470 ÷ 1.4570    Heavy metals (Pb) ..... ≤ 5 ppm    Assay (GLC) ..... ≥ 98 %  
Alcohol miscibility ..... Complete    Boiling point ..... 115.8 ÷ 117.3 °C    Residue on ignition ..... ≤ 100 ppm

Code	Size	Packaging	Notes
449425	1 l	Glass bottle	
449426	5 l	Plastic tank	
449424	25 kg	Polythene-metal drum	

**Ethylenediaminetetraacetic acid**

Acido etilendiamminotetracetico • Acide éthylènediaminetétracétique (EDTA) • Acido etilendiaminotetracetico (EDTA)

Synonym:

EDTA  
(Ethylenedinitrilo)tetraacetic acid

$[\text{CH}_2\text{N}(\text{CH}_2\text{COOH})_2]_2$   
Molecular Weight: 292,24  
CAS: 60-00-4  
EEC-N: 200-449-4

**Warning**

H319  
P264-P280i-P305+P351+P338-P337+P313

**Ethylenediaminetetraacetic acid > RPE - For analysis****RPE**

Description ..... White powder    Loss on drying ..... ≤0.1 %    NH<sub>4</sub>OH-Insoluble subst. .... ≤50 ppm    Cu ..... ≤2 ppm  
Identification ..... Positive    Nitrotriacetic acid ..... ≤0.15 %    Heavy metals (Pb) ..... ≤5 ppm    Fe ..... ≤5 ppm  
Chelation power ..... Conform    Chloride ..... ≤40 ppm    Residue on ignition ..... ≤0.1 %    Assay (complexometric) ..... ≥99 %

Code	Size	Packaging	Notes
405465	250 g	Plastic bottle	
405463	1 kg	Plastic bottle	
405462	5 kg	Plastic jar	

**Suitable for complexometry****Ethylenediaminetetraacetic acid > ERBapharm - According to pharmacopoeia : NF****ERBapharm**

Description ..... White powder    Nitrotriacetic acid ..... ≤0.3 %    Fe ..... ≤50 ppm  
Identification ..... Positive    Residue on ignition ..... ≤0.2 %    Assay (complexometric) ..... 98.0 ÷ 100.5 %

Code	Size	Packaging	Notes
303251	5 kg	Plastic jar	
303252	25 kg	Plastic bucket	

**Suitable for complexometry**



## Ethylenediaminetetraacetic acid dipotassium salt dihydrate

Acido etilendiamminotetracetico sale bipotassico diidrato •  
Acide éthylènediaminotétracétique sel dipotassique dihydraté •  
Acido etilendiaminotetracético sal dipotásica dihidrato

Synonym:  
*Dipotassium ethylenediaminetetraacetate dihydrate*  
*EDTA dipotassium salt*

$[CH_2N(CH_2COOH)CH_2CO-OK]_2 \cdot 2H_2O$   
Molecular Weight: 404,46  
CAS: 25102-12-9



### Warning

H302-H312-H332  
P264-P271-P261-P280h-P304+P340-P330

### Ethylenediaminetetraacetic acid dipotassium salt dihydrate > RPE - For analysis

**RPE**

Description ..... White powder      pH sol. 5% at 25° C ..... 4.0 ÷ 5.0      Heavy metals (Pb)..... ≤10 ppm      Assay (complexometric) .... 99.0 ÷ 101.5 %  
Identification ..... Positive      Chloride ..... ≤50 ppm      Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
405531	50 g	Glass bottle	

**Suitable for complexometry**



## Ethylenediaminetetraacetic acid disodium salt

Acido etilendiamminotetracetico sale bisodico • Acide éthylènediaminotétracétique sel disodique •  
Acido etilendiaminotetracético sal disódica

Synonym:  
*Disodium ethylenediaminetetraacetate dihydrate*  
*EDTA disodium salt*

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$   
Molecular Weight: 372,24  
CAS: 6381-92-6  
EEC-N: 205-358-3



### Warning

H332-H373  
P271-P260-P304+P340-P312a-P314-P501a

### Ethylenediaminetetraacetic acid disodium salt > RPE - For analysis - ACS

**RPE**

Description ..... White powder      pH sol. 5% at 25° C ..... 4.0 ÷ 6.0      Water-insoluble matter ..... ≤50 ppm      Fe ..... ≤100 ppm  
Identification ..... Positive      Nitrotriacetic acid ..... ≤0.1 %      Heavy metals (Pb)..... ≤50 ppm      Assay (complexometric) .... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
405494	100 g	Plastic bottle	
405491	250 g	Plastic bottle	
405497	1 kg	Plastic bottle	
405492	25 kg	Plastic bucket	

**Suitable for complexometry**

### Ethylenediaminetetraacetic acid disodium salt > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.

**ERBApharm**

Description ..... White powder      pH sol. 5% at 25° C ..... 4.0 ÷ 5.5      Assay (complexometric) .... 98.5 ÷ 101.0 %      Impurity A ..... ≤ 0.1 %  
Identification ..... Positive      Heavy metals (Pb)..... ≤20 ppm      Origin (BSE/TSE)..... Synthesis  
Appearance of solution ..... Conform Ph.Eur.      Fe ..... ≤80 ppm      Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
303201	1 kg	Plastic bottle	
303203	5 kg	Plastic jar	
303202	25 kg	Plastic bucket	

### Ethylenediaminetetraacetic acid disodium salt > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

**ERBApharm**

Description ..... White powder      Ca ..... Conform USP-NF      Ac. nitrotriacetico (Impurezza A) ... ≤ 0.1 %      Assay (complexometric) 99.0 ÷ 101.0 % s.s.  
Identification ..... Positive      pH sol. 5% at 25° C ..... 4.0 ÷ 5.5      Heavy metals (Pb)..... ≤ 20 ppm      Origin (BSE/TSE)..... Synthesis  
Appearance of solution ..... Conform Ph.Eur.      Loss on drying ..... 8.7 ÷ 11.4 %      Fe ..... ≤ 80 ppm      Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
303227	1 kg	Plastic bottle	
303226	5 kg	Plastic jar	
303225	25 kg	Plastic bucket	



### Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)

Acido etilendiamminotetracetico sale bisodico 0.1 mol/l (0.2N) •  
Acide éthylènediaminetétracétique sel disodique 0.1 mol/l (0.2N) •  
Acido etilendiamminotetracético sal disódica 0.1 mol/l (0.2N)

Synonym:  
Disodium ethylenediaminetetraacetate dihydrate  
EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$   
Molecular Weight: 372,24  
CAS: 6381-92-6

HEU210

### Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005901	500 ml	Plastic bottle	Ref Ph.Eur 3005900
613005900	1 l	Plastic bottle	Ref Ph.Eur 3005900

### Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid    NIST 682  
Assay (colorimetry) ..... 0.1996 - 0.2004 N

Code	Size	Packaging	Notes
405511000	1 l	Plastic bottle	
405513000	5 l	Kubidos	
405514000	5 l	Plastic tank	
405512000	10 l	Kubidos	

**37.22 g of EDTA disodium salt. Volumetric solution ready-to-use : 0.2N. Traceable to NIST**

### Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Conform    Titration factor ..... 1.000 ± 0.005

Code	Size	Packaging	Notes
405421		Plastic vial	Volume : 165 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,1 M**



### Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)

Acido etilendiamminotetracetico sale bisodico 0.05 mol/l (0.1N) •  
Acide éthylènediaminetétracétique sel disodique 0.05 mol/l (0.1N) •  
Acido etilendiamminotetracético sal disódica 0.05 mol/l (0.1N)

Synonym:  
Disodium ethylenediaminetetraacetate dihydrate  
EDTA disodium salt

$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$   
Molecular Weight: 372,24  
CAS: 6381-92-6

HEU210

### Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Assay (colorimetry) ..... 0.0998 - 0.1002 N    NIST 682

Code	Size	Packaging	Notes
405501000	1 l	Plastic bottle	
405502000	5 l	Plastic tank	

**18.61 g of EDTA disodium salt. Volumetric solution ready-to-use : 0.1N. Traceable to NIST**

**Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28)**

 Acido etilendiamminotetracetico sale disodico 0.0178 mol/l (N/28) •  
Acide éthylènediaminetétracétique sel disodique 0.0178 mol/l (N/28) •  
Acido etilendiamminotetracético sal disódica 0.0178 mol/l (N/28)

Synonym:  
*Disodium ethylenediaminetetraacetate dihydrate*  
*EDTA disodium salt*

C10H14N2Na2O8.2H2O HEU210  
Molecular Weight: 372,24  
CAS: 6381-92-6

**Ethylenediaminetetraacetic acid disodium salt 0.0178 mol/l (N/28) > RS - For agroalimentary analysis** **RS**

Description ..... Clear liquid    Color ..... ≤ 10 APHA    Assay ..... 0.0158 ÷ 0.0198 M

Code	Size	Packaging	Notes
526011	10 l	Kubidos	

**Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)**

 Acido etilendiamminotetracetico sale bisodico 0.01 mol/l (0.02N) •  
Acide éthylènediaminetétracétique sel disodique 0.01 mol/l (0.02N) •  
Acido etilendiamminotetracético sal disódica 0.01 mol/l (0.02N)

Synonym:  
*Disodium ethylenediaminetetraacetate dihydrate*  
*EDTA disodium salt*

C10H14N2Na2O8.2H2O HEU210  
Molecular Weight: 372,24  
CAS: 6381-92-6

**Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N) > RPE - For analysis** **RPE**

Description ..... Clear colourless liquid    **NIST 682**  
Assay (colorimetry) ..... 0.01996 - 0.02004 N

Code	Size	Packaging	Notes
405442000	1 l	Glass bottle	
405443000	5 l	Kubidos	

**3.722 g of EDTA disodium salt. Volumetric solution ready-to-use : 0.02N. Traceable to NIST**


**Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N) > RPE - NORMEX - For analysis** **RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005


Code	Size	Packaging	Notes
405431		Plastic ampoule	Volume : 55 ml

**3,3621 g EDTA. Volumetric concentrated solution to prepare 1 L of solution 0,01 M**

**Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate**

 Acido etilendiamminotetracetico sale di potassio e magnesio diidrato •  
Acide éthylènediaminetétracétique sel de potassium et de magnésium dihydraté •  
Acido etilendiamminotetracético sal dipotasica-magnésica dihidrato

Synonym:  
*EDTA-K2Mg*  
*Ethylenediaminetetraacetic acid dipotassium magnesium salt*

C10H12K2MgN2O8.2H2O  **Warning**  
H302-H312-H332  
P264-P271-P261-P280h-P304+P340-P330

Molecular Weight: 462,8  
CAS: 15708-48-2  
EEC-N: 239-803-8

**Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate > RPE - For analysis** **RPE**

Description ..... White powder    pH (0.1M a 20°C) ..... 8.5 ÷ 9.5    Sulphate ..... ≤ 100 ppm    Fe ..... ≤ 10 ppm  
Identification ..... Positive    Chloride ..... ≤ 50 ppm    Heavy metals (Pb) ..... ≤ 10 ppm    Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
405541	100 g	Plastic bottle	

**Suitable for complexometry**





## Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate

Acido etilendiamminotetracetico sale tetrasodico tetraidrato •  
Acide éthylènediaminetétracétique sel tétracétique tétrahydraté •  
Acido etilendiamminotetracetico sal tetrasódica tetraidrato

Synonym:  
EDTA tetrasodium salt  
Tetrasodium ethylenediaminetetraacetate tetrahydrate

$[\text{CH}_2\text{N}(\text{CH}_2\text{COONa})_2]_2 \cdot 4\text{H}_2\text{O}$   
Molecular Weight: 452,24  
CAS: 13235-36-4  
EEC-N: 200-573-9



### Warning

H302-H312-H332  
P264-P271-P280-P261-P304+P340-P330

### Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate > RPE - For analysis

**RPE**

Description ..... White crystalline powder      pH sol. 1% ..... 10.0 ÷ 12.0      Assay (complexometric) ..... ≥ 98.5 % (s.s.)  
Identification ..... Positive      Water (K.F.) ..... 15.0 - 17.0 %

Code	Size	Packaging	Notes
405482	250 g	Plastic bottle	
405486	25 kg	Fibreboard box	

Suitable for complexometry



## Ethylene glycol

Glicol etilenico • Éthylène glycol • Etilenglicol

Synonym:  
1,2-Ethanediol

$\text{CH}_2\text{OHCH}_2\text{OH}$   
Molecular Weight: 62,07  
CAS: 107-21-1  
EEC-N: 203-473-3



### Warning

H302-H373  
P264-P260-P270-P314-P330-P301+P312a

### Ethylene glycol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Reac. with Ammonium hydr ..... Conform      Water (K.F.) ..... ≤ 0.1 %      Peroxides (H<sub>2</sub>O<sub>2</sub>) ..... ≤ 5 ppm  
Identification ..... Positive      Sub reducing AgNO<sub>3</sub> amm ..... Conform      Acidity (acetic acid) ..... ≤ 3 ppm      Residue on ignition ..... ≤ 50 ppm  
Water miscibility ..... Conform      Density at 20° C ..... 1.108 ÷ 1.118      Chloride ..... ≤ 2 ppm      Sulphate ..... ≤ 20 ppm  
Misc. with Acetone ..... Complete      Refractive index at 20°C. 1.4274 ÷ 1.4354      Carbonyl Compounds (CO) ..... ≤ 100 ppm      Fe ..... ≤ 1 ppm  
Alcohol miscibility ..... Complete      Boiling point ..... 195 ÷ 199 ° C      Heavy metals (Pb) ..... ≤ 2 ppm      Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
453905	1 l	Glass bottle	
453904	2.5 l	Glass bottle	
453906	5 l	Plastic tank	
453902	30 kg	Plastic drum	

### Ethylene glycol > RE - Pure

**RE**

Description ..... Clear colourless liquid      Density at 20° C ..... 1.108 ÷ 1.118      Boiling point ..... 195.0 ÷ 199.0 ° C      Residue on ignition ..... ≤ 100 ppm  
Identification ..... Positive      Refractive index at 20°C. 1.4264 ÷ 1.4364      Water (K.F.) ..... ≤ 0.3 %      Assay (GLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
346501	1 l	Glass bottle	
346503	2.5 l	Glass bottle	
346502	5 l	Plastic tank	
346504	25 l	Plastic tank	
346509	60 kg	Plastic tank	



## Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid

Acido etilenglicole bis-(2-amminoetilere) tetracetico • Acide éthylèneglycol bis-(2-aminoéthylether) tétrocétique (EGTA) • Acido etilenglicol-bis (2-aminoetil-éter) tetracético

Synonym:  
EGTA

$C_{14}H_{24}N_2O_{10}$   
Molecular Weight: 380,35  
CAS: 67-42-5  
EEC-N: 200-651-2

### Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid > RPE - For analysis

**RPE**

Description ..... White cryst. powder      Chloride ..... ≤500 ppm      Residue on ignition ..... ≤0.1 %  
Identification ..... Positive      NH4OH-insoluble subst ..... ≤50 ppm      Sulphate ..... ≤100 ppm  
Loss on drying ..... ≤1 %      Heavy metals (Pb) ..... ≤10 ppm      Assay (complexometric) ..... ≥97 %

Code	Size	Packaging	Notes
405521	10 g	Glass bottle	
405522	100 g	Plastic bottle	

*Suitable for complexometry*

Ethylene glycol butyl ether ▶ 2-Butoxy ethanol

Ethylene glycol dimethyl ether ▶ 1,2-Dimethoxyethane

Ethylene glycol monomethyl ether ▶ 2-Methoxy ethanol



## Ethylene oxide solution

Soluzione ossido di etilene • Oxyde d'éthylène solution • Etileno óxido solución

### Ethylene oxide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611036408	1 ml	Glass ampoule	Ethylene oxide solution R5 Ref Ph.Eur 1036408
611036401	10 ml	Glass ampoule	Ethylene oxide stock solution Ref Ph.Eur 1036401

Ethyl ether ▶ Diethyl ether



## Ethyl formate

Etile formiato • Ethyle formiate • Etilo formiato

Synonym:  
Formic acid ethyl ester

$CH_3CH_2OOCH$   
Molecular Weight: 74,08  
CAS: 109-94-4  
EEC-N: 203-721-0

**Classification transport**  
ONU: 1190  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H332-H319-H335  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Ethyl formate > RE - Pure

**RE**

Description ..... Clear liquid      Density at 20° C ..... 0.907 ÷ 0.927      Assay (GLC) ..... ≥ 98.0 %      Boiling point ..... 53.3 ÷ 55.3 °C  
Identification ..... Positive      Refractive index at 20°C. 1.3547 ÷ 1.3647      Colour (APHA) ..... ≤ 20      Acidity ..... ≤ 0.002 meq/g

Code	Size	Packaging	Notes
342101	1 l	Glass bottle	



## Ethyl methyl ketone

Metiletilchetone • Méthyléthylcétone • Metiletilcetona

Synonym:  
2-Butanone

CH<sub>3</sub>CH<sub>2</sub>COCH<sub>3</sub>  
Molecular Weight: 72,11  
CAS: 78-93-3  
EEC-N: 201-159-0

**Classification transport**  
ONU: 1193  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336-HEU066  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### Ethyl methyl ketone > RS - Anhydrous - For analysis

RS

Refractive index at 20°C ..... 1.377 - 1.381    Non volatile residue ..... ≤ 10 mg/Kg    Assay (GC) ..... ≥ 99.5 %  
Water content (K.F.) ..... ≤ 200 mg/Kg    Colour ..... ≤ 10 Hazen    Free acid (as CH<sub>3</sub>COOH) ..... ≤ 30 mg/Kg

Code	Size	Packaging	Notes
P0201016	1 l	Glass bottle	

### Ethyl methyl ketone > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... Clear colourless liquid    Boiling point ..... 79 ÷ 80 °C    Ba ..... ≤ 0.1 ppm    Mn ..... ≤ 0.02 ppm  
Identification (I.R.) ..... Positive    Water (K.F.) ..... ≤ 500 ppm    Ca ..... ≤ 0.5 ppm    Ni ..... ≤ 0.02 ppm  
Colour ..... ≤ 10 APHA    Residue on evaporation ..... ≤ 10 ppm    Cd ..... ≤ 0.05 ppm    Pb ..... ≤ 0.1 ppm  
Alcohol miscibility ..... Complete    Acidity (acetic acid) ..... ≤ 30 ppm    Co ..... ≤ 0.02 ppm    Sn ..... ≤ 0.1 ppm  
Diethyl ether miscib. .... Complete    Aldehydes (Formaldehyde) ..... ≤ 20 ppm    Cr ..... ≤ 0.02 ppm    Zn ..... ≤ 0.1 ppm  
Water solubility ..... Conform    Heavy metals (Pb) ..... ≤ 1 ppm    Cu ..... ≤ 0.02 ppm    Assay (GLC) ..... ≥ 99.5 %  
Density at 20° C ..... 0.802 ÷ 0.808    Subst. reducing KMnO<sub>4</sub> ..... ≤ 2 ppm(15m)    Fe ..... ≤ 0.1 ppm  
Refractive index at 20°C ..... 1.3784 ÷ 1.3834    Al ..... ≤ 0.5 ppm    Mg ..... ≤ 0.1 ppm

Code	Size	Packaging	Notes
462701	1 l	Glass bottle	
462703	2.5 l	Glass bottle	
462704	10 l	Plastic tank	
462702	22 kg	Metal drum	

### Ethyl methyl ketone > RE - Pure

RE

Description ..... Clear colourless liquid    Density at 20° C ..... 0.800 ÷ 0.810    Water (K.F.) ..... ≤ 0.1 %    Total alcohol ..... ≤ 0.5 %  
Identification ..... Positive    Refractive index at 20°C ..... 1.3784 ÷ 1.3844    Residue on evaporation ..... ≤ 20 ppm    Assay (GLC) ..... ≥ 99.5 %  
Colour ..... ≤ 10 APHA    Boiling point ..... 79 ÷ 80 °C    Acidity (acetic acid) ..... ≤ 30 ppm

Code	Size	Packaging	Notes
354254	1 l	Glass bottle	
354253	2.5 l	Glass bottle	
528975	5 l	Plastic tank	
354251	22 kg	Metal drum	
528976	25 l	Metal drum	
354255	160 kg	Metal drum	
528977	200 l	Metal drum	



## Eugenol

Eugenolo • Eugenol • Eugenol

Synonym:  
2-Methoxy-4-(2-propenyl)phenol  
4-Allyl-2-methoxyphenol

C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>  
Molecular Weight: 164,21  
CAS: 97-53-0  
EEC-N: 202-589-1



**Warning**  
H302-H317  
P264-P261-P280g-P330-P301+P312a-P333+P313

### Eugenol > RPE - For analysis

RPE

Description ..... Yellow clear liquid    Density at 20° C ..... 1.05 ÷ 1.07    Assay (GLC) ..... ≥ 96 %  
Identification ..... Positive    Refractive index at 20°C ..... 1.53 ÷ 1.54

Code	Size	Packaging	Notes
449773	100 ml	Glass bottle	



**Eukitt**  
Eukitt • EUKITT • Eukitt

**Classification transport**  
ONU: 1307  
Transport Hazard class: 3  
Packing group III



**Danger**  
H226-H315-H319-H335-H304  
P210-P264-P280-P303+P361+P353-P304+P312a

## Eukitt > RS - For microscopy

RS

Description ..... Viscous liquid Identification ..... Positive

Code	Size	Packaging	Notes
554194	100 ml	Aluminium bottle	
554193	250 ml	Aluminium bottle	
554192	500 ml	Aluminium bottle	

**Balm rapid inclusion**



**Europium standard solution**  
Europio standard soluzione • Europium solution standard • Europio, solución patrón

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



## Europium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505602	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505605	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Europium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503571	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503575	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503573	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503577	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Europium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507736	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507502	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Fast green FCF**

Verde solido FCF • Vert solide FCF • Verde sólido FCF

Synonym:  
Food green 3

$C_{37}H_{34}N_2Na_2O_{10}S_3$   
Molecular Weight: 808,86  
CAS: 2353-45-9  
EEC-N: 219-091-5

**Warning**

H302-H312-H332-H351  
P264-P271-P280-P304+P340-P308+P313-P330

**Fast green FCF > RS - For microscopy - C.I. 42053**

RS

Description ..... Red brown powder Identification ..... Positive

Code	Size	Packaging	Notes
491391	25 g	Glass bottle	

**Dye for histology****Fehling's A reagent**

Fehling reattivo soluzione A • Réactif de Fehling solution A • Fehling reactivo solución A

**Classification transport**

ONU: 3082  
Transport Hazard class: 9  
Packing group III



H411  
P273-P391-P501a

**Fehling's A reagent > RS - For glucose detection**

RS

CuSO<sub>4</sub>.5H<sub>2</sub>O content ..... 69.16 - 69.43 g/l Description ..... Clear blue liquid Density at 20° C ..... 1.037 - 1.043 [CuSO<sub>4</sub>.5H<sub>2</sub>O] ..... 69.12 - 69.40 g/l

Code	Size	Packaging	Notes
449926	500 ml	Plastic bottle	
449927	1 l	Plastic bottle	
PS0492/41	10 l	Plastic tank	

**Composition: Copper sulfate and benzoic acid****Fehling's B reagent**

Fehling reattivo soluzione B • Réactif de Fehling solution B • Fehling reactivo solución B

**Classification transport**

ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**

H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Fehling's B reagent > RS - For glucose detection**

RS

Concentration ..... 345.3 - 346.7 g/l Description ..... Clear colourless liquid Density at 20° C ..... 1.259 - 1.265 Alkalinity (NaOH) ..... 119 - 121 0/00

Code	Size	Packaging	Notes
E449936	500 ml	Plastic bottle	
E449937	1 l	Plastic bottle	
PS0493/41	10 l	Plastic tank	

**Composition: Potassium sodium tartrate and sodium hydroxide****Ferricyanide standard solution**

Ferricianuro standard soluzione • Ferricyanures standard solution • Ferricianuro, solución patrón

**Ferricyanide standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615001300	100 ml	Plastic bottle	A 50 ppm solution : to dilute according to Ph.Eur 5001300


**Ferrocyanide standard solution**

Ferrocianuro standard soluzione • Ferrocyanures standard solution • Ferrocianuro, solución patrón

**Ferrocyanide standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615001209	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ph.Eur 5001200

	<b>Ferroin 0.025 mol/l solution</b>	Synonym: 1,10-Phenanthroline iron(II) sulfate complex o-Phenanthroline ferrous sulfate complex
	Ferroina 0.025 mol/l soluzione • Indicateur Ferroïne 0.025 mol/l • Ferroína solución 0.025 mol/l	
	[Fe(C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> ) <sub>3</sub> ]SO <sub>4</sub> Molecular Weight: 692,52 CAS: 14634-91-4	H412 P273-P501a

**Ferroin 0.025 mol/l solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS


Code	Size	Packaging	Notes
611038100	100 ml	Plastic bottle	Ref Ph.Eur 1038100

**Ferroin 0.025 mol/l solution > RS - For environmental analysis (COD determination)**

RS

Description ..... Dark red liquid

Code	Size	Packaging	Notes
526751	100 ml	Bottle	

	<b>Fixative AFA liquid</b>	
	Liquido fissatore AFA • Liquide fixateur AFA • Líquido fijador AFA	
	<b>Classification transport</b> ONU: 1993 Transport Hazard class: 3 Packing group II	   <b>Danger</b> H225-H319-H317-H350-HA26 P210-P241-P264-P303+P361+P353- P305+P351+P338-P403+P235

**Fixative AFA liquid > RS - For histology**

RS

Description ..... Clear liquid

Code	Size	Packaging	Notes
508840	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
526267	1 l	Plastic bottle	
526263001	5 l	Plastic tank	
526321	25 l	Plastic tank	

**Contains Ethanol, formaldehyde and acetic acid**

	<b>Fixative Bouin Duboscq Brazil liquid</b>	
	Liquido fissatore di Bouin Duboscq Brazil • Liquide de Bouin Duboscq-Brazil • Líquido fijador de Bouin Duboscq-Brazil	
	<b>Classification transport</b> ONU: 2924 Transport Hazard class: 3 Packing group III	   <b>Danger</b> H226-H302-H312-H332-H314-H318-H317-H341- H350-H335-HA26 P210-P241-P264-P301+P330+P331- P303+P361+P353-P304+P340-P305+P351+P338- P403+P235

**Fixative Bouin Duboscq Brazil liquid > RS - For histology**

RS

Aspect ..... Yellow liquid

Code	Size	Packaging	Notes
526271	1 l	Plastic bottle	
526262	5 l	Plastic tank	



## Fixative Bouin Hollande liquid

Liquido fissatore di Bouin Hollande • Liquide de Bouin Hollande • Líquido fijador de Bouin Holland



### Danger

H317-H350-HA26  
P280-P261-P272-P308+P313-P333+P313-  
P302+P352a

### Fixative Bouin Hollande liquid > RS - For histology

RS

Appearance ..... Clear liquid

Code	Size	Packaging	Notes
526268	1 l	Plastic bottle	
526269	5 l	Plastic tank	



## Fixative Bouin liquid

Liquido fissatore di Bouin • Liquide de Bouin • Líquido fijador de Bouin



### Danger

H302-H315-H319-H317-H341-H350-H335-HA26  
P264-P271-P280-P304+P340-P305+P351+P338-  
P308+P313

### Fixative Bouin liquid > RS - For histology

RS

Appearance ..... Yellow liquid

Code	Size	Packaging	Notes
508835	20 ml	Plastic jar	40 ml jars filled at 20 ml. Box of 500
526270	1 l	Plastic bottle	
526261	5 l	Plastic tank	

**Contains formaldehyde, acetic acid and 2,4,6-trinitrophenol**

### Fixative Bouin liquid > RS - For hematology

RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
429751	1 l	Plastic bottle	

CE IVD



## Fixative Davidson liquid

Liquido fissatore di Davidson • Liquide fixateur de Davidson • Líquido fijador de Davidson

**Classification transport**  
ONU: 1986  
Transport Hazard class: 3  
Packing group I



### Danger

H224-H302-H315-H319-H317-H341-H350-H335-  
HA26  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### Fixative Davidson liquid > RS - For histology

RS

Description ..... Clear colourless liquid

Code	Size	Packaging	Notes
508881	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
508883	100 ml	Plastic jar	180 ml jars filled at 100 ml. Box of 100
526277	5 l	Plastic tank	

### Fixative Davidson liquid > RS - For histology - For eyes

RS

Code	Size	Packaging	Notes
508882	300 ml	Plastic jar	500 ml jars filled at 300 ml. Box of 32



## Fixative FIXALL-HIS liquid

Liquido fissatore FIXALL-HIS • Liquide fixateur FIXALL-HIS • Líquido fijador FIXALL-HIS

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Fixative FIXALL-HIS liquid > RS - For histology

RS

Code	Size	Packaging	Notes
526274	5 l	Plastic tank	

Formaldehyde substitute. Ready-to-use solution



## Fixative liquid without acetic acid

Liquido fissatore senza acido acetico • Liquide fixateur sans acide acétique • Líquido fijador sin acido acético

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H302-H312-H332-H315-H319-H317-H341-  
H350-H335-HA26  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### Fixative liquid without acetic acid > RS - For histology

RS

Description ..... Clear colourless liquid

Code	Size	Packaging	Notes
526264	10 l	Plastic tank	



## Florisil 100-200 mesh

Florisil 100-200 mesh • Florisil 100-200 mesh • Florisil 100-200 mesh

Synonym:  
Magnesium silicate

MgO<sub>3</sub>Si  
Molecular Weight: 100,39  
CAS: 1343-88-0  
EEC-N: 215-681-1

### Florisil 100-200 mesh > RS - Adsorbent for chromatography

RS

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
452351	100 g	Plastic bottle	
452353	500 g	Plastic bottle	



## Florisil 60-100 mesh

Florisil 60-100 mesh • Florisil 60-100 mesh • Florisil 60-100 mesh

Synonym:  
Magnesium silicate

MgO<sub>3</sub>Si  
Molecular Weight: 100,39  
CAS: 1343-88-0  
EEC-N: 215-681-1

### Florisil 60-100 mesh > RS - Adsorbent for chromatography

RS

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
452331	100 g	Plastic bottle	
452333	500 g	Plastic bottle	
452332	1 kg	Plastic bottle	



## Florisil 60-100 mesh > RS - For residual pesticides analysis

**RS**

Description ..... White powder      **Granulometry**      70 mesh.....ca 20.0 %      100 mesh.....ca 30.0 %  
 Identification ..... Positive      60 mesh.....ca 2.0 %      80 mesh.....ca 41.0 %      140 mesh.....ca 6.9 %

Code	Size	Packaging	Notes
452271	100 g	Plastic bottle	
452273	500 g	Plastic bottle	



## Fluorescein

Fluoresceína • Fluorescéine • Fluoresceína

 Synonym:  
 Acid Yellow 73

$C_{20}H_{12}O_5$   
 Molecular Weight: 332,32  
 CAS: 2321-07-5  
 EEC-N: 219-031-8

## Fluorescein > RPE - For analysis

**RPE**

Description ..... Red brown powder      Identification ..... Positive

Code	Size	Packaging	Notes
452086	25 g	Glass bottle	
452083	50 g	Glass bottle	
452087	500 g	Plastic bottle	



## Fluorescein sodium salt

Fluoresceína sodica • Fluorescéine sodique • Fluoresceína sódica

 Synonym:  
 Acid Yellow 73  
 Uranine

$C_{20}H_{10}Na_2O_5$   
 Molecular Weight: 376,28  
 CAS: 518-47-8  
 EEC-N: 208-253-0

## Fluorescein sodium salt > RPE - For analysis - C.I. 45350

**RPE**

Description ..... Red brick powder      Identification ..... Positive      Absorbion ind.sensit. .... Conform      Loss on drying ..... ≤10 %

Code	Size	Packaging	Notes
452112	25 g	Glass bottle	
452113	50 g	Plastic bottle	
452117	1 kg	Plastic bottle	

## Fluorescein sodium salt > RE - Pure - C.I. 45350

**RE**

Description ..... Red brick powder      Identification ..... Positive

Code	Size	Packaging	Notes
345356	25 g	Glass bottle	
345357	1 kg	Plastic bottle	
345355	5 kg	Plastic jar	



## Fluorexon

Fluoroexone • Fluorexone • Fluorexona

 Synonym:  
 Calcein  
 Bis[N,N-bis(carboxymethyl)aminomethyl]  
 fluorescein

$C_{30}H_{24}O_{13}N_2Na_2$   
 Molecular Weight: 622,54  
 CAS: 1461-15-0  
 EEC-N: 215-957-1

## Fluorexon > RPE - For analysis

**RPE**

Description ..... Orange red powder      Identification ..... Positive

Code	Size	Packaging	Notes
452141	1 g	Glass bottle	
452142	25 g	Glass bottle	

**Complexometric indicator**



## Fluoride standard solution

Fluoruri standard soluzione • Fluorure solution standard • Fluoruro, solución patrón

### Fluoride standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001401	100 ml	Plastic bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001401
615001409	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001400

### Fluoride standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503251	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503253	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Fluorite ► Calcium fluoride



## Folin-Ciocalteu's reagent

Folin-Ciocalteu reattivo • Réactif de Folin-Ciocalteu • Folin-Ciocalteu reactivo

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group II



### Danger

H314-H319  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Folin-Ciocalteu's reagent > RS - For microscopy

RS

Description ..... Yellow clear liquid    Identification ..... Positive    Sensibilità ai fenoli (A a 650nm) ..... ≥ 0.26    Titolo (equiv. di acido) ..... 1.9 ÷ 2.1 N

Code	Size	Packaging	Notes
E463562	500 ml	Glass bottle	

**For the determination of phenols. Store at +4 °C**



## Formaldehyde 37% w/v neutralized

Aldeide formica 37% p/v neutralizzata • Aldéhyde formique 37% m/v neutre •  
Formaldehído 37% p/v neutralizada

Synonym:  
Formalin

HCHO  
Molecular Weight: 30,03  
CAS: 50-00-0

### Classification transport

ONU: 2209  
Transport Hazard class: 8  
Packing group III



### Danger

H302-H311-H331-H314-H317-H341-H350-H370-  
H335-HA26  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Formaldehyde 37% w/v neutralized > RS - For histology

RS

Description ..... Clear liquid    Colour (APHA) ..... ≤ 10    Identification ..... Positive    Assay (oxidimetric) ..... ≥ 37 % (m/v)

Code	Size	Packaging	Notes
415686	1 l	Plastic bottle	
415682	5 l	Plastic bottle	
415683	10 kg	Plastic tank	
415684	30 kg	Plastic drum	
415685	55 kg	Plastic tank	

**Stabilized with ~10% of methanol. Neutralized with dolomite**

**Formaldehyde 37% w/v**

Aldeide formica 37% m/v • Aldéhyde formique 37% m/v • Formaldehído 37% m/v

Synonym:  
FormalinHCHO  
Molecular Weight: 30,03  
CAS: 50-00-0**Classification transport**  
ONU: 2209  
Transport Hazard class: 8  
Packing group III**Danger**H302-H311-H331-H314-H317-H341-H350-H370-  
H335-HA26  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Formaldehyde 37% w/v > RPE - For analysis****RPE**

Description .....	Clear liquid	Density at 20°C .....	1.085 ÷ 1.092	Heavy metals (Pb).....	≤2 ppm	Fe .....	≤1 ppm
Colour (APHA) .....	≤10	Acidity (formic acid).....	≤350 ppm	Residue on ignition .....	≤500 ppm	Pb .....	≤1 ppm
Identification .....	Positive	Chloride.....	≤5 ppm	Sulphate .....	≤20 ppm	Assay (oxidimetric) .....	≥37 % (m/v)

Code	Size	Packaging	Notes
415661	1 l	Plastic bottle	
415666	2.5 l	Plastic bottle	
415667	5 l	Plastic bottle	
415669	30 kg	Plastic drum	
415662	55 kg	Plastic tank	

**Stabilized with ~10% of methanol****Formaldehyde 35% w/w**

Aldeide formica 35% p/p • Aldéhyde formique 35% m/m • Formaldehyde 35% w/w

Synonym:  
FormalinHCHO  
Molecular Weight: 30,03  
CAS: 50-00-0**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group III**Danger**H302-H311-H331-H314-H318-H317-H341-H350-  
H335-HA26  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Formaldehyde 35% w/w > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611039101	100 ml	Plastic bottle	Ref Ph.Eur 1039101

**Formaldehyde 35% w/w > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.****ERBApharm**

Description .....	Clear colourless liquid	Appearance of solution .....	Conform Ph.Eur.	Sulphated ash.....	≤0.1 %	Assay (iodometric).....	34.5 ÷ 38.0 % m/m
Identification .....	Positive	Acidity .....	Conform Ph.Eur.	Methyl alcohol.....	9.0 ÷ 15.0 % v/v	Origin (BSE/TSE).....	Synthesis

Code	Size	Packaging	Notes
310351	1 l	Plastic bottle	
310356	2.5 l	Plastic bottle	
310358	5 l	Plastic bottle	
310349	10 kg	Plastic tank	
310348	30 kg	Plastic drum	
310355	55 kg	Plastic tank	

**Formaldehyde 30% w/v**

Aldeide formica 30 % p/v • Aldéhyde formique 30% m/v • Formaldehído 30% p/v

Synonym:  
FormalinHCHO  
Molecular Weight: 30,03  
CAS: 50-00-0**Classification transport**  
ONU: 2209  
Transport Hazard class: 8  
Packing group III**Danger**H302-H311-H331-H314-H317-H341-H350-H371-  
H335-HA26  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Formaldehyde 30% w/v > RE - Pure****RE**

Description .....	Clear colourless liquid	Density at 20°C .....	1.075 ÷ 1.100	Assay .....	27.5 ÷ 32.5 % (m/v)
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Code	Size	Packaging	Notes
524930	5 l	Plastic tank	

**Stabilized with ~10% of methanol**



## Formaldehyde 30% w/w with sodium chloride

Aldeide formica 30 % p/p con sodio cloruro • Aldéhyde formique 30% m/m salé •  
Formaldehído 30% p/p con sodio cloruro

Synonym:  
Formalin

HCHO  
Molecular Weight: 30,03  
CAS: 50-00-0

**Classification transport**  
ONU: 2209  
Transport Hazard class: 8  
Packing group III



### Danger

H302-H311-H331-H314-H317-H341-H350-H370-  
H335-HA26  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Formaldehyde 30% w/w with sodium chloride > RE - Pure

RE

Description ..... Clear colourless liquid pH at 20°C ..... 6.9 ÷ 7.1 NaCl ..... 26 ÷ 28 g/L

Code	Size	Packaging	Notes
526935	10 l	Plastic tank	salted at pH 7

**Stabilized with ~10% of methanol**



## Formaldehyde 10% v/v according to Lillie

Aldeide formica 10% v/v (Liquido di Lille) • Aldéhyde formique 10% v/v selon Lillie •  
Formaldehído 10% v/v según Lillie

Synonym:  
Formalin

HCHO  
Molecular Weight: 30,03  
CAS: 50-00-0



### Danger

H317-H341-H350-HA26  
P280-P261-P272-P308+P313-P333+P313-  
P302+P352a

### Formaldehyde 10% v/v according to Lillie > RS - For histology

RS

Description ..... Clear colourless liquid pH at 20°C ..... 6.8 ÷ 7.0

Code	Size	Packaging	Notes
508850	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500. Colored pink.
508853	80 ml	Plastic jar	140 ml jars filled at 80 ml. Box of 150. Colored pink
508851	100 ml	Plastic jar	180 ml jars filled at 100 ml. Box of 100. Colored pink
526912	5 l	Plastic tank	
526911	25 l	Plastic tank	

**Stabilized with ~10% of methanol**



## Formaldehyde 5% w/v buffered at pH 6.9

Aldeide formica 5% p/v tamponata pH 6,9 • Aldéhyde formique 5% m/v tamponné à pH 6,9 •  
Formaldehído 5% p/v tamponata pH 6,9

Synonym:  
Formalin

HCHO  
Molecular Weight: 30,03  
CAS: 50-00-0



### Danger

H317-H341-H350-HA26  
P280-P261-P272-P308+P313-P333+P313-  
P302+P352a

### Formaldehyde 5% w/v buffered at pH 6.9 > RS - For histology

RS

Description ..... Clear colourless liquid pH at 20°C ..... 6.9 - 7.1

Code	Size	Packaging	Notes
415674	5 l	Plastic tank	
415672	10 l	Plastic tank	

**Formaldehyde 4% w/v with sodium chloride**Aldeide formica 4 % p/v con sodio cloruro • Aldéhyde formique 4% m/v salé •  
Formaldehído 4% p/v con sodio cloruroSynonym:  
FormalinHCHO  
Molecular Weight: 30,03  
CAS: 50-00-0**Danger**H317-H341-H350-HA26  
P280-P261-P272-P308+P313-P333+P313-  
P302+P352a**Formaldehyde 4% w/v with sodium chloride > RS - For histology**

RS

Description ..... Clear colourless liquid    pH at 20°C ..... 7.30 ÷ 7.40    Stabilized with 1% of methyl alcohol

Code	Size	Packaging	Notes
526934	1 l	Plastic bottle	

**Formaldehyde 4% w/v buffered at pH 6.9**Aldeide formica 4% p/v tamponata pH 6,9 • Aldéhyde formique 4% m/v tamponné à pH 6,9 •  
Formaldehído 4% p/v tamponata pH 6,9Synonym:  
FormalinHCHO  
Molecular Weight: 30.03  
CAS: 50-00-0**Danger**H317-H341-H350-HA26  
P280-P261-P272-P308+P313-P333+P313-  
P302+P352a**Formaldehyde 4% w/v buffered at pH 6.9 > RS - For histology - CE - IVD**

RS

Code	Size	Packaging	Notes
415634	1 l	Plastic bottle	
415631	5 l	Plastic bottle	
415633	10 l	Kubidos	
415636	20 l	Plastic tank	

CE IVD 10% solution (v/v) buffered at pH 7 and stabilized with methanol

**Formaldehyde 4% w/v buffered at pH 6.9 > RS - For histology**

RS

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 6.8 ÷ 7.0    Density at 20° C ..... ≥ 1.00  
pH at 20°C ..... 6.8 ÷ 7.0    Density at 20°C ..... ≥ 1.00    Assay (oxydimetric) ..... ≥ 4.0 %    Assay (oxidimetric) ..... ≥ 4.0 %

Code	Size	Packaging	Notes
508859	20 ml	Plastic jar	40 ml jars filled at 20 ml. Box of 500
508861	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
508862	120 ml	Plastic jar	180 ml jars filled at 120 ml. Box of 100
508863	300 ml	Plastic jar	500 ml jars filled at 300 ml. Box of 32
524920	500 ml	Plastic jar	
526937	800 ml	Plastic jar	1 l jar filled at 800 ml
415694	1 l	Plastic bottle	
526931	2.5 l	Plastic bucket	5 l bucket filled at 2.5 l
415691	5 l	Plastic bottle	
415695	5 l	Kubidos	
526936	5 l	Plastic tank	
415693	10 l	Kubidos	
526933	10 l	Plastic tank	
415696	20 l	Plastic tank	
415692	30 kg	Plastic drum	
415697	200 l	Plastic drum	

10% solution (v/v) buffered at pH 6.9 with phosphate ions. Stabilized with methanol

	<b>Formaldehyde acetic</b> Aldeide formica e acido acetico • Formol acétique • Formol acético	Synonym: Formalin
	HCHO Molecular Weight: 30,03 CAS: 50-00-0	 <b>Danger</b> H302-H315-H319-H317-H341-H350-H335-HA26 P264-P271-P280-P304+P340-P305+P351+P338- P308+P313

**Formaldehyde acetic > RS - For histology** **RS**

Description ..... Clear colourless liquid

Code	Size	Packaging	Notes
508871	30 ml	Plastic jar	60 ml jars filled at 30 ml. Box of 500
508872	40 ml	Plastic jar	60 ml jars filled at 40 ml. Box of 500
508874	65 ml	Plastic jar	180 ml jars filled at 65 ml. Box of 100
508873	120 ml	Plastic jar	180 ml jars filled at 120 ml. Box of 160
526231	1 l	Plastic bottle	
526273	5 l	Plastic tank	

	<b>Formamide</b> Formammide • Formamide • Formamida	Synonym: Formic amide
	HCONH <sub>2</sub> Molecular Weight: 45,02 CAS: 75-12-7 EEC-N: 200-842-0	 <b>Danger</b> H351-H360D-H373-HA26 P280-P260-P201-P202-P308+P313-P314

**Formamide > RS - Anhydrous - For analysis** **RS**



Refractive index at 20°C ..... 1.445 - 1.449    Colour ..... ≤ 10 Hazen    Methanol ..... ≤ 0.2 %  
 Water content (K.F.) ..... ≤ 500 mg/Kg    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P6151010	200 ml	Bottle with septum	

**Formamide > RPE - For analysis - ACS** **RPE**

Description ..... Clear liquid    Identification ..... Positive    Assay (GLC) ..... ≥ 99.5 %  
 Colour (APHA) ..... ≤ 10    Freezing point ..... 2.0 ÷ 3.0 °C

Code	Size	Packaging	Notes
452282	250 ml	Glass bottle	
452286	1 l	Glass bottle	

	<b>Formic acid 99%</b> Acido formico 99% • Acide formique 99% • Acido fórmico 99%	Classification transport ONU: 1779 Transport Hazard class: 8 Packing group II	 <b>Danger</b> H226-H314 P210-P243-P280-P303+P361+P353- P305+P351+P338-P310a
	HCOOH Molecular Weight: 46,03 CAS: 64-18-6 EEC-N: 200-579-1		

**Formic acid 99% > RS - For LC/MS** **RS**

Description ..... Clear colourless liquid    Residue on evaporation ..... ≤ 10 ppm    at 280 nm ..... ≥ 95 %    Na ..... ≤ 0.5 ppm  
 Colour (APHA) ..... ≤ 10    Assay (acidimetric) ..... ≥ 99.0 %    at 300 nm ..... ≥ 98 %    Ca ..... ≤ 0.2 ppm  
 Refractive index at 20°C ..... 1.3709 ÷ 1.3719    **U.V. Transmittance**    at 320 nm ..... ≥ 99 %    Mg ..... ≤ 0.1 ppm  
 Density at 20° C ..... 1.218 ÷ 1.222    at 260 nm ..... ≥ 20 %    Al ..... ≤ 0.05 ppm    K ..... ≤ 0.1 ppm  
 Boiling point ..... 100.2 - 101.2 °C    at 270 nm ..... ≥ 85 %    Fe ..... ≤ 0.2 ppm

Code	Size	Packaging	Notes
405821	10 x 1 ml	Glass ampoule	
405822	10 x 2.5 ml	Glass ampoule	
405823	50 ml	Plastic bottle	
405824	1 l	Glass bottle	

**Additive for eluent phase for LC-MS**

**Formic acid 99% > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description	Clear liquid	Chloride	≤5 ppm	Cd	≤0.05 ppm	Na	≤0.5 ppm
Colour (APHA)	≤10	Heavy metals (Pb)	≤2 ppm	Co	≤0.02 ppm	Ni	≤0.05 ppm
Water miscibility	Conform	Oxalate	≤50 ppm	Cr	≤0.05 ppm	Pb	≤0.02 ppm
Density at 20° C	1.218 ÷ 1.222	Sulphate	≤5 ppm	Cu	≤0.02 ppm	Sr	≤0.02 ppm
Refractive index at 20°C	1.3709 ÷ 1.3719	Sulphite	≤10 ppm	Fe	≤2 ppm	V	≤0.05 ppm
Boiling point	100.2 ÷ 101.2 °C	Ag	≤0.02 ppm	K	≤0.1 ppm	Zn	≤0.05 ppm
Residue on evaporation	≤20 ppm	Al	≤0.05 ppm	Li	≤0.02 ppm	Assay (acidimetric)	≥98 %
Acetic acid	≤500 ppm	Ba	≤0.05 ppm	Mg	≤0.5 ppm		
Ammonium	≤10 ppm	Bi	≤0.1 ppm	Mn	≤0.05 ppm		
Total nitrogen	≤20 ppm	Ca	≤0.2 ppm	Mo	≤0.02 ppm		

Code	Size	Packaging	Notes
405792	1 l	Glass bottle	
405793	5 l	Plastic tank	
405794	30 kg	Plastic drum	

**Formic acid 99% > ERBApharm - According to pharmacopoeia : DAB****ERBApharm**

Description	Clear colourless liquid	Density at 20° C	1.218 ÷ 1.222	Origin (BSE/TSE)	Synthesis
Identification	Positive	Assay (acidimetric)	≥ 98 % m/m		

Code	Size	Packaging	Notes
303911	1 l	Glass bottle	
303912	2.5 l	Glass bottle	
303913	30 kg	Plastic drum	

**Formic acid 85%**

Acido formico 85% • Acide formique 85% • Acido fórmico 85%

HCOOH  
Molecular Weight: 46,03  
CAS: 64-18-6

**Classification transport**  
ONU: 1779  
Transport Hazard class: 8  
Packing group II

**Danger**

H226-H314-H318  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

**Formic acid 85% > RPE - For analysis****RPE**

Description	Clear liquid	Total nitrogen	≤20 ppm	Bi	≤0.1 ppm	Mg	≤0.5 ppm
Colour (APHA)	≤10	Chloride	≤5 ppm	Cd	≤0.05 ppm	Mn	≤0.05 ppm
Identification	Positive	Heavy metals (Pb)	≤2 ppm	Co	≤0.02 ppm	Mo	≤0.02 ppm
Water miscibility	Conform	Oxalate	≤50 ppm	Cr	≤0.05 ppm	Ni	≤0.05 ppm
Density at 20° C	1.196 ÷ 1.199	Sulphate	≤5 ppm	Cu	≤0.02 ppm	Sr	≤0.02 ppm
Residue on evaporation	≤20 ppm	Sulphite	≤10 ppm	Fe	≤2 ppm	V	≤0.05 ppm
Acidity (acetic acid)	≤500 ppm	Ag	≤0.02 ppm	K	≤0.1 ppm	Zn	≤0.05 ppm
Ammonium	≤10 ppm	Ba	≤0.05 ppm	Li	≤0.02 ppm	Assay (acidimetric)	85 ÷ 87 %

Code	Size	Packaging	Notes
405832	1 l	Glass bottle	
405833	2.5 l	Glass bottle	
405835	30 kg	Plastic drum	

**Formic acid 85% > RE - Pure****RE**

Description	Clear liquid	Residue on evaporation	≤0.5 %	Sulphate	≤300 ppm
Identification	Positive	Chloride	≤100 ppm	Fe	≤50 ppm
Density at 20° C	1.196 ÷ 1.199	Heavy metals (Pb)	≤50 ppm	Assay (acidimetric)	85 ÷ 87 %

Code	Size	Packaging	Notes
303905	1 l	Glass bottle	
303901	30 kg	Plastic drum	



## Formic acid-d

Acido formico-d • Acide formique-d • Acido fórmico-d

HCOOD

Molecular Weight: 47,03

CAS: 925-94-0

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group I



### Danger

H314-H318

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Formic acid-d > RS - For NMR - min 97%

RS

Code	Size	Packaging	Notes
P5733	5 ml	Glass bottle	

Formic acid ammonium salt ▶ Ammonium formate

Formic acid calcium salt ▶ Calcium formate

Formic acid ethyl ester ▶ Ethyl formate



## D(-)Fructose

D(-)Fruttosio • D(-)Fructose • D(-)Fructosa

$C_6H_{12}O_6$

Molecular Weight: 180,16

CAS: 57-48-7

EEC-N: 200-333-3

### D(-)Fructose > RPE - For analysis

RPE

Description .....	White powder	Specific optical rotation.....	-93.0 ÷ -91.0 °	Water-insoluble matter .....	≤100 ppm	Sulphate .....	≤50 ppm
Identification .....	Positive	Loss on drying .....	≤0.5 %	Heavy metals (Pb).....	≤10 ppm	As .....	≤1 ppm
Melting point.....	101.5 ÷ 104.5 ° C	Chloride.....	≤10 ppm	Residue on ignition.....	≤300 ppm	Fe .....	≤10 ppm

Code	Size	Packaging	Notes
452665	100 g	Plastic bottle	
452666	500 g	Plastic bottle	



## Fuchsin acid

Fucsina acida • Fuchsine acide • Fucsina ácida

Synonym:  
Acid Violet 19

$C_{20}H_{17}N_3Na_2O_9S_3$

Molecular Weight: 585,6

CAS: 3244-88-0

EEC-N: 221-816-5

### Fuchsin acid > RPE - For analysis - C.I. 42685

RPE

Description .....	Dark green crystals	Identification .....	Positive	Decolorization with SO <sub>2</sub> .....	Conform
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Code	Size	Packaging	Notes
452812	25 g	Glass bottle	
452814	100 g	Plastic bottle	

**Dye for microscopy (botanical-histology). Indicator acid - base (pH 12.0 ÷ 14.0)**



**Fuchsin basic**

Fucsina basica • Fuch sine basique • Fucsina básica

Synonym:  
Basic Violet 14

$C_{20}H_{20}ClN_3$   
Molecular Weight: 337,85  
CAS: 632-99-5  
EEC-N: 211-189-6

**Warning**

H315-H319-H351-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P308+P313

**Fuchsin basic > RPE - For analysis - C.I. 42510****RPE**Description ..... Green crystals Identification ..... Positive Decolorization with SO<sub>2</sub> ..... Conform

Code	Size	Packaging	Notes
452842	25 g	Glass bottle	
452844	100 g	Plastic bottle	

**Dye for microscopy (bacteriology-Botanical-histology). Indicator acid - base (pH 1.0 ÷ 3.1)****Fuchsin solution decolorised**

Fucsina decolorata soluzione • Fuch sine décolorée solution • Fucsina solución decolorizada

Synonym:  
Basic Violet 14

$C_{20}H_{20}ClN_3$   
Molecular Weight: 337,85  
CAS: 632-99-5

HEU210

**Fuchsin solution decolorised > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611039401	100 ml	Glass bottle	Ref Ph.Eur 1039401
611039402	100 ml	Glass bottle	Fuchsin solution, decolorised R1 Ref Ph.Eur 1039402

**Fumaric acid**

Acido fumarico • Acide fumarique • Acido fumárico

HOOCCH:CHCOOH  
Molecular Weight: 116,07  
CAS: 110-17-8  
EEC-N: 203-743-0

**Warning**

H319  
P264-P280i-P305+P351+P338-P337+P313

**Fumaric acid > RPE - For analysis****RPE**

Description ..... White crystal powder Water (K.F) ..... ≤ 0.5 % Heavy metals (Pb) ..... ≤ 10 ppm Maleic acid ..... ≤ 0.1 %  
Identification ..... Positive Assay (dried base) ..... 99.5 ÷ 100.5 % Residue on ignition ..... ≤ 100 ppm

Code	Size	Packaging	Notes
406284	100 g	Glass bottle	
406287	1 kg	Plastic bottle	



## Gadolinium standard solution

Gadolinio standard soluzione • Gadolinium solution standard • Gadolinio, solución patrón

### Classification transport

ONU: 3264  
 Transport Hazard class: 8  
 Packing group III



### Gadolinium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505622	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505625	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

### Gadolinium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503601	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503605	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503603	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503607	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

### Gadolinium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507737	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507504	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*



## D(+)-Galactose

D(+)-Galattosio • D(+)-Galactose • D(+)-Galactosa

$\text{CH}_2\text{OHCH(CHOH)}_3\text{CHOH}$

Molecular Weight: 180,16

CAS: 59-23-4

EEC-N: 200-416-4

### D(+)-Galactose > RPE - For analysis

RPE

Description ..... White powder Potere rotat. spec. a20°C (C=10;H20;NH3) ..+78 ÷ +81.5 ° Water (K.F.) .....≤ 0.3 %  
 Identification ..... Positive (s.s.) Sulphated ash.....≤ 0.1 %

Code	Size	Packaging	Notes
453125	250 g	Plastic bottle	
453126	1 kg	Plastic bottle	

**Gallic acid monohydrate**

Acido gallico monoidrato • Acide gallique monohydraté • Acido gálico monohidrato

Synonym:

3,4,5-Trihydroxybenzoic acid monohydrate

3,4,5-(OH)<sub>3</sub>C<sub>6</sub>H<sub>2</sub>COOH.H<sub>2</sub>O  
 Molecular Weight: 188,14  
 CAS: 5995-86-8  
 EEC-N: 205-749-9

**Warning**

H315-H319  
 P264-P280g-P280i-P305+P351+P338-P332+P313-  
 P337+P313

**Gallic acid monohydrate > RPE - For analysis****RPE**

Description ..... White powder      Loss on drying ..... ≤ 10 %      Sulphated ash ..... ≤ 0.1 %  
 Identification ..... Positive      Sulphate ..... ≤200 ppm      Assay (acidimetric) ..... ≥ 99.0 % (s.s.)

Code	Size	Packaging	Notes
406335	250 g	Plastic bottle	
406336	1 kg	Plastic bottle	

**Gallic acid monohydrate > RE - Pure****RE**

Description ..... Yellow crystalline powder      Loss on drying 100° C ..... ≤10 %      Sulphate ..... ≤500 ppm  
 Identification ..... Positive      Residue on ignition ..... ≤0.1 %

Code	Size	Packaging	Notes
304201	1 kg	Plastic bottle	
304202	5 kg	Plastic jar	

**Gallium standard solution**

Gallio standard soluzione • Gallium standard solution • Galio solución estándar

**Classification transport**

ONU: 3264  
 Transport Hazard class: 8  
 Packing group II

**Gallium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505617	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505618	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505619	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Gallium standard solution > RS - Standard solution for AAS****RS**

Code	Size	Packaging	Notes
507739	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507503	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Gardner Colour Standards

Standard Gardner del colore • Etalons couleurs Gardner • Patrones de color Gardner

### Gardner Colour Standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540701	100 ml	Glass bottle	Colour 2
540702	100 ml	Glass bottle	Colour 4
540703	100 ml	Glass bottle	Colour 6
540704	100 ml	Glass bottle	Colour 8
540705	100 ml	Glass bottle	Colour 10
540706	100 ml	Glass bottle	Colour 12
540707	100 ml	Glass bottle	Colour 14
540708	100 ml	Glass bottle	Colour 16



## Gelatine

Gelatina • Gélatine • Gelatina

CAS: 9000-70-8

EEC-N: 232-554-6

### Gelatine > RS - For microbiology

RS

Description ..... Yellowish crystalline powder Identification ..... Positive Loss on drying ..... ≤ 13 % Sulphated ash ..... ≤ 2 %

Code	Size	Packaging	Notes
453226	500 g	Plastic bottle	



## Gentian violet

Violetto genziana • Violet de gentiane • Violeta de genciana

Synonym:  
Crystal violet solution  
Basic violet 3

$C_{25}H_{30}ClN_3$

Molecular Weight: 407,99

CAS: 548-62-9

EEC-N: 208-953-6

### Classification transport

ONU: 2811

Transport Hazard class: 6.1

Packing group III



### Danger

H302-H318-H351-H410

P264-P273-P280i-P305+P351+P338-P308+P313-P330

### Gentian violet > RE - Pure

RE

Description ..... Dark green powder Identification ..... Positive Loss on drying 100° C ..... ≤ 10 %

Code	Size	Packaging	Notes
388703	25 g	Glass bottle	
388701	50 g	Glass bottle	

**Dye for microscopy (bacteriology)**



## Gentian violet carbolated solution

Violetto genziana soluzione fenicata • Violet de gentiane solution phéniquée •

Violeta de genciana solución fenicada

Synonym:  
Crystal violet solution  
Basic violet 3

$C_{25}H_{30}ClN_3$

Molecular Weight: 407,99

CAS: 548-62-9



### Warning

H319-H412

P264-P273-P280-P305+P351+P338-P337+P313-P501a

### Gentian violet carbolated solution > RS - For microscopy

RS

Description ..... Violet clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
E491651	250 ml	Glass bottle	Dye for microscopy (bacteriology) according to GRAM
E491661	250 ml	Glass bottle	Dye for microscopy (bacteriology) according to NICOLLE

**Germanium standard solution**

Germanio standard soluzione • Germanium solution standard • Germanio, solución patrón

**Germanium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615004400	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5004400

**Germanium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505632	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505635	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid
505633	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Germanium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504251	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
504255	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid
504253	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
504257	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Germanium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507740	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507505	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Gibb's reagent ▶ 2,6-Dichloroquinone-4-chlorimide****Giemsa's reagent**

Giemsa reattivo • Réactif de Giemsa • Giemsa reactivo

**Classification transport**

ONU: 1230  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H226-H301-H331-H370  
 P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

**Giemsa's reagent > RS - For hematology**

RS

Description ..... Blue clear liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
453614	100 ml	Glass bottle	
E453612	6 x 100 ml	Bottle	
453616	500 ml	Bottle	
E453613	6 x 500 ml	Bottle	
453611	2.5 l	Bottle	
E453615	4 x 2.5 l	Bottle	

CE **IVD** Dye according hematology Romanowski

**Glass wool**

Lana di vetro • Laine de verre • Lana de vidrio

Synonym:  
Silica  
Silicon dioxide

CAS: 7631-86-9

**Glass wool > RPE - For analysis****RPE**

Description ..... White fibres      Identification ..... Positive      Alkalinity (NaOH) ..... ≤0.1 %      Heavy metals (Pb) ..... ≤50 ppm

Code	Size	Packaging	Notes
457521	250 g	Carton box	

**D-Glucitol ▶ Sorbitol****D(+)-Glucose anhydrous**

D(+)-Glucosio anidro • D(+)-Glucose anhydre • D(+)-Glucosa anhidra

Synonym:  
Dextrose $\text{CH}_2\text{OHCH}(\text{CHOH})_3\text{CHOH}$ 

Molecular Weight: 180,16

CAS: 50-99-7

EEC-N: 200-075-1

**D(+)-Glucose anhydrous > RPE - For analysis - ACS****RPE**Description ..... White crystalline powder      Loss on drying ..... ≤0.2 %      Chloride ..... ≤100 ppm      Residue on ignition ..... ≤200 ppm  
Identification ..... Positive      Acidity ..... ≤0.002 meq/g      Water-insoluble matter ..... ≤50 ppm      Sulphat + sulphit (SO<sub>4</sub>) ..... ≤50 ppm  
Specific optical rotation... +52.5 ÷ +53.0 °      Starch ..... Conform      Heavy metals (Pb) ..... ≤5 ppm      Fe ..... ≤5 ppm

Code	Size	Packaging	Notes
454335	100 g	Plastic bottle	
454336	500 g	Plastic bottle	
454337	1 kg	Plastic bottle	
454338	2.5 kg	Plastic jar	
454333	25 kg	Plastic bucket	

**D(+)-Glucose anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB-JP****ERBApharm**Description ..... White crystalline powder      Solub. starch, sulphite ..... Conform USP-NF      Water (K.F.) ..... ≤ 0.5 %      Related substances (HPLC) Conform Ph.Eur.  
Appearance of solution ..... Conform Ph.Eur.      Dextrine ..... Conform USP-NF      Heavy metals (Pb) ..... ≤ 5 ppm      Assay (LC) ..... 97.5 ÷ 102.0 % (a.s)  
Identification ..... Conform      Specific optical rotation at 20°C (anhyd) 52.5 ÷ 53.3 °      Conductivity at 20°C ..... ≤ 20 µS/cm      Sulphate ..... ≤ 0.024 %

Code	Size	Packaging	Notes
346987	1 kg	Plastic bottle	
346989	5 kg	Plastic jar	
346983	25 kg	Plastic bucket	

**D(+)-Glucose monohydrate**

D(+)-Glucosio monoidrato • D(+)-Glucose monohydraté • D(+)-Glucosa monohidrato

Synonym:  
Dextrose monohydrate $\text{CH}_2\text{OHCH}(\text{CHOH})_3\text{CHOH}\cdot\text{H}_2\text{O}$ 

CAS: 5996-10-1

EEC-N: 200-075-1

**D(+)-Glucose monohydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-BP-DAB-JP****ERBApharm**Description ..... White crystalline powder      Dextrine ..... Conform USP-NF      Heavy metals (Pb) ..... ≤ 5 ppm      Conductivity at 20°C ..... ≤ 20 µS/cm  
Identification ..... Positive      Specific optical rotation at 20°C (anhyd) 52.5 ÷ 53.3 °      Origin (BSE/TSE) ..... Vegetable      Related substances (HPLC) Conform Ph.Eur.  
Appearance of solution ..... Conform Ph.Eur.      Water (K.F.) ..... 7.5 ÷ 9.5 %      Solub. Starch, sulphite ..... ≤ 15 ppm      Assay (LC) ..... 97.5 ÷ 102.0 % (a.s)

Code	Size	Packaging	Notes
346971	1 kg	Plastic bottle	
346972	5 kg	Plastic jar	
346973	25 kg	Plastic bucket	



## L(+)-Glutamic acid

Acido L(+)-glutammico • Acide L(+)-glutamique • Acido L(+)-glutámico

Synonym:  
(S)-2-Aminopentanedioic acid

HOOCCH(NH<sub>2</sub>)CH<sub>2</sub>CH<sub>2</sub>COOH  
Molecular Weight: 147,13  
CAS: 56-86-0  
EEC-N: 200-293-7

### L(+)-Glutamic acid > RPE - For analysis

RPE

Description .....	White powder	Ammonium .....	≤ 200 ppm	Residue on ignition .....	≤ 0.1 %	Fe .....	≤ 30 ppm
Identification .....	Positive	Chloride .....	≤ 200 ppm	Transmittance at 430nm (C=10; HCl 2N) ≥ 98 %		Assay (non-aqueous medium) .98.5 ÷ 100.5 % (s.s.)	
Potere rotat. specif. a 20°C+30.5 ÷ 32.5 ° (s.s.)		Sulphate .....	≤ 300 ppm	Other amino-acids .....	Not detectables		
Loss on drying .....	≤ 0.5 %	Heavy metals (Pb) .....	≤ 10 ppm	As2O3 .....	≤ 1 ppm		

Code	Size	Packaging	Notes
406485	250 g	Plastic bottle	

### L(+)-Glutamic acid > RE - Pure

RE

Description .....	White powder	Specific optical rotation at 20°C (C=10; ... +31.5 ÷ +32.5 °	Chloride .....	≤ 210 ppm	Sulphated ash .....	≤ 0.1 %
Identification .....	Positive	Transmittance at 430nm (C=10; HCl 2N) ≥ 98 %	Sulphate .....	≤ 280 ppm	Fe .....	≤ 30 ppm
Loss on drying .....	≤ 0.2 %	Other amino-acids .....	Ammonium .....	≤ 200 ppm	Assay (acidimetric) .....	98.5 ÷ 100.5 %s.s.
Other amino-acids .....	Not detectables		Heavy metals (Pb) .....	≤ 10 ppm		

Code	Size	Packaging	Notes
304505	250 g	Plastic bottle	
304507	1 kg	Plastic bottle	



## Glutaraldehyde solution 50%

Aldeide glutarica soluzione 50% • Aldéhyde glutarique solution 50% • Glutaraldehydo solución 50%

Synonym:  
Pentane-1,5-dial

C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>  
Molecular Weight: 100,12  
CAS: 111-30-8

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II



**Danger**  
H301-H334-H314-H400-H317-H335-H336  
P273-P301+P330+P331-P303+P361+P353-P304+P340

### Glutaraldehyde solution 50% > RPE - For analysis

RPE

Description .....	Clear colourless liquid	Identification .....	Positive	Density at 20° C .....	1.127 ÷ 1.133	Assay .....	50.0 ÷ 52.0 %
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Code	Size	Packaging	Notes
415721	10 l	Kubidos	



## Glycerol (30°Bé)

Glicerina (30°Bé) • Glycérine (30°Bé) • Glicerina (30°Bé)

Synonym:  
1,2,3-Propanetriol

CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH  
Molecular Weight: 92,09  
CAS: 56-81-5  
EEC-N: 200-289-5

### Glycerol (30°Bé) > RS - RSE - For electronic use

RS

Description .....	Clear liquid	Ready carbonizable substances.....Conform ACS	ppm	Ca .....	≤ 10 ppm
Colour (APHA) .....	≤ 10	Density at 25°/25° C .....	≥ 1.2570	Cr .....	≤ 0.1 ppm
Identification .....	Positive	pH 10% at 25° C .....	5 ÷ 7	Cu .....	≤ 0.1 ppm
Water miscibility .....	Complete	Organic chlorine (Cl) .....	≤ 30 ppm	Fe .....	≤ 0.5 ppm
Alcohol miscibility .....	Complete	Chloride .....	≤ 2 ppm	Ni .....	≤ 0.1 ppm
Acrolein, sugars and ammonia compounds Conform ACS		Fatty acid esters(glyceryl trybutyrate) ≤ 500		Assay (densimetric) .....	≥ 99.5 %
				Sulphate .....	≤ 10 ppm
				As .....	≤ 0.4 ppm

Code	Size	Packaging	Notes
453771	1 l	Glass bottle	
453772	2.5 l	Glass bottle	

## Glycerol (30°Bé) > RPE - For analysis - ACS - Reag. USP

**RPE**

Description .....	Clear liquid	Ready carbonizable substances.....	Conform ACS	Heavy metals (Pb).....	≤ 2 ppm	Esters of fatty acids (butyric acid).....	≤ 500 ppm
Colour (APHA) .....	≤ 10	Water (K.F.) .....	≤ 0.5 %	Residue on ignition.....	≤ 50 ppm	Ca.....	≤ 10 ppm
Identification .....	Positive	Organic chlorine (Cl).....	≤ 30 ppm	Sulphate.....	≤ 10 ppm	Fe.....	≤ 0.5 ppm
Neutrality.....	Conform ACS			Acrolein and glucose.....	Conform ACS	Assay (GLC).....	≥ 99.5 %

Code	Size	Packaging	Notes
453751	500 ml	Plastic bottle	
453752	1 l	Glass bottle	
453755	2.5 l	Glass bottle	
453759	35 kg	Metal drum	
453758	260 kg	Metal drum	

## Glycerol (30°Bé) > ERBApharm - Vegetal origin - According to Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBApharm**

Description .....	Clear colourless liquid	Sugar .....	Conform Ph.Eur.	Refractive index at 20°C.....	1.470 ÷ 1.475	Sulphate.....	≤ 20 ppm
Identification .....	Positive	Esters.....	Conform Ph.Eur.	Water (K.F.) .....	≤ 2.0 %	Assay (acidimetric).....	99.0 ÷ 101.0 % s.s.
Appearance of solution.....	Conform Ph.Eur.	Fatty acids and esters.....	Conform USP-NF	Sulphated ash.....	≤ 100 ppm	Limit of chlorinated compounds.....	≤ 30 ppm
Acidity or alkalinity.....	Conform Ph.Eur.	Colour .....	Conform USP-NF	Chloride.....	≤ 10 ppm		
Aldehydes.....	≤ 10 ppm	Organic volatile impurities.....	Conform USP-NF	Halogenated compounds.....	≤ 35 ppm		
Diethyl.glyc.rel.subst.....	Conform Ph.Eur.	Density at 25°C .....	≥ 1.249	Heavy metals (Pb).....	≤ 5 ppm		

Code	Size	Packaging	Notes
346161	1 l	Glass bottle	
346165	2.5 l	Glass bottle	
346162	5 l	Plastic tank	
346164	35 kg	Metal drum	
346167	250 kg	Metal drum	

**30° Bé**

## Glycerol (30°Bé) > RE - Pure

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.4710 ÷ 1.4740	Heavy metals (Pb).....	≤ 5 ppm	As.....	≤ 0.5 ppm
Identification .....	Positive	pH 10% at 25° C.....	5 ÷ 7	Residue on ignition.....	≤ 100 ppm	Fe.....	≤ 1 ppm
Density at 20° C.....	1.258 ÷ 1.264	Chloride.....	≤ 10 ppm	Sulphate.....	≤ 20 ppm		

Code	Size	Packaging	Notes
346102	1 l	Glass bottle	
346106	35 kg	Metal drum	



## Glycerol 90% (28° Bé)

Glicerina 90% (28° Bé) • Glycérine 90% (28° Bé) • Glicerina 90% (28° Bé)

 Synonym:  
1,2,3-Propanetriol

CH2OHCHOHCH2OH  
 Molecular Weight: 92,09  
 CAS: 56-81-5  
 EEC-N: 200-289-5

## Glycerol 90% (28° Bé) > RE - Pure

**RE**

Description .....	Clear colourless liquid	Heavy metals (Pb).....	≤ 5 ppm	Refractive index at 20°C.....	1.4490 ÷ 1.4550	Chloride.....	≤ 10 ppm
Identification .....	Positive	Residue on ignition.....	≤ 100 ppm	Aldehydes.....	≤ 10 ppm	Water (K.F.).....	11.5 ÷ 16.5 %
Density at 20° C.....	1.220 ÷ 1.233	Appearance of solution.....	Conform	Esters.....	Conform	Assay.....	83.5 ÷ 88.5 %
Chlorinated compounds.....	≤ 30 ppm	Acidity or alkalinity.....	Conform	Sugar.....	Conform		

Code	Size	Packaging	Notes
346131	1 l	Glass bottle	
346132	2.5 l	Glass bottle	
346134	35 kg	Plastic drum	





## Glycine

Glicocolla • Glyocolle • Glicina

Synonym:  
Aminoacetic acid  
Glycocoll

CH<sub>2</sub>NH<sub>2</sub>COOH  
Molecular Weight: 75,07  
CAS: 56-40-6  
EEC-N: 200-272-2

### Glycine > RPE - For analysis

RPE

Description ..... White crystalline powder      Loss on drying ..... ≤ 0.2 %      Heavy metals (Pb) ..... ≤ 20 ppm  
Identification (I.R.) ..... Positive      Chloride ..... ≤ 70 ppm      Sulphated ash ..... ≤ 0.1 %  
Hydrolyzable matter ..... Conform      Sulphate ..... ≤ 65 ppm      Assay (non-aqueous medium) ..... ≥ 98.5 % (s.s.)

Code	Size	Packaging	Notes
453804	100 g	Glass bottle	
453807	1 kg	Plastic bottle	

### Glycine > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-Ph.Franc.

ERBApharm

Description ..... White crystalline powder      pH solution 5% ..... 5.9 ÷ 6.4      Heavy metals (Pb) ..... ≤ 10 ppm      Related substances (HPLC) Conform Ph.Eur.  
Identification ..... Positive      Loss on drying ..... ≤ 0.2 %      Sulphate ..... ≤ 65 ppm      Ammonium (NH<sub>4</sub>) ..... ≤ 0.02 %  
Appearance of solution ..... Conform Ph.Eur.      Sulphated ash ..... ≤ 0.1 %      Assay (non-aqueous medium) 98.5 ÷ 101.0 % s.s.      Ninhydrin positive substances ..... Conform Ph.Eur.  
Hydrolyzable matter ..... Conform USP-NF      Chloride ..... ≤ 70 ppm      Sostanze ninidrina-positive Conform Ph.Eur.

Code	Size	Packaging	Notes
346207	1 kg	Plastic bottle	
346205	5 kg	Plastic jar	
346208	25 kg	Plastic bucket	

## Glycocoll ► Glycine



## Glycolic acid

Acido glicolico • Acide glycolique • Acido glicólico

Synonym:  
Hydroxyacetic acid

CH<sub>2</sub>OHCOOH  
Molecular Weight: 76,052  
CAS: 79-14-1  
EEC-N: 201-180-5

**Classification transport**  
ONU: 3261  
Transport Hazard class: 8  
Packing group II



**Danger**  
H302-H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Glycolic acid > RPE - For analysis

RPE

Description ..... White crystals      Melting point ..... 72 ÷ 80 °C      Water ..... ≤ 1 %  
Identification ..... Positive      Assay (acidimetric) ..... ≥ 98.5 % s.s.

Code	Size	Packaging	Notes
406434	100 g	Glass bottle	



## Glyoxal standard solution

Gliossale standard soluzione • Glyoxal standard solution • Glioxal, solución patrón

### Glyoxal standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003700	100 ml	Plastic bottle	A 20 ppm solution : to dilute according to Ph.Eur 5003700



## Glyoxal-bis-(2-hydroxyanil)

Gliossale-bis(2-idrossianile) • Glyoxal-bis-(2-hydroxyanile) • Glioxal-bis-(2-idrossianilo)

Synonym:  
2,2'-(Ethanediylidenedinitrilo)difenol  
GBHA

$C_{14}H_{12}N_2O_2$   
Molecular Weight: 240,26  
CAS: 1149-16-2  
EEC-N: 214-560-0



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Glyoxal-bis-(2-hydroxyanil) > RPE - For analysis

**RPE**

Description ..... Beige powder    Loss on drying ..... ≤ 0.5 %    Assay (HPLC) ..... ≥ 97 %  
Identification ..... Positive    Sulphated ash ..... ≤ 0.1 %

Code	Size	Packaging	Notes
454131	10 g	Glass bottle	
454132	25 g	Glass bottle	

*Indicator for the complexometric titration of calcium*



## Gold standard solution

Oro standard soluzione • Or solution standard • Oro, solución patrón



### Danger

H314-HEU208  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Gold standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505317	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505318	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid
505319	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

### Gold standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
503431	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503435	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503433	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503437	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

### Gold standard solution > RS - Standard solution for AAS

**RS**

Description ..... Yellow clear liquid    Identification ..... Positive    Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497585	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
E497581	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

### Gold standard solution > RS - NORMEX - Concentrated solution for AAS

**RS**

Description ..... Yellow clear liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
466961		Plastic vial	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

*Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package*



## Gold(III) chloride trihydrate

Oro (III) cloruro triidrato • Or trichlorure acide • Oro triclورو acido

Synonym:

Tetrachloroauric(III) acid  
Hydrogen tetrachloroaurate(III)

$\text{HAuCl}_4 \cdot 3\text{H}_2\text{O}$   
Molecular Weight: 393,83  
CAS: 16961-25-4  
EEC-N: 240-948-4

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314-H317  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Gold(III) chloride trihydrate > RPE - For analysis - ACS

RPE

Description ..... Orange crystalline powder    Insol.in Diethyl ether ..... ≤ 0.1 %    Titolo (Au) ..... ≥ 49.0 %  
Identification ..... Positive    Metalli (S04) ..... ≤ 0.2 %

Code	Size	Packaging	Notes
467007	1 g	Glass ampoule	



## Gram - Hucker Kit

Kit Gram-Hucker • Kit de Gram complet • Kit de Gram complet

**Classification transport**  
ONU: 3316  
Transport Hazard class: 9  
Packing group II

P210-P241-P264-P273-P303+P361+P353-  
P305+P351+P338-P403+P235

### Gram - Hucker Kit > RS - For bacteriology

RS

Description

Identification ..... Positive

Code	Size	Packaging	Notes
454441	4 x 250 ml	Carton box	

CE **Dye. Contains ethanol. 4 bottles of 250 ml. 1x 477241 Safranin T, 1x 458751 iodine, 1x 444131 differentiator 1x 491561 Violet oxalate crystals**



## Griess' reagent

Griess reattivo soluzione in acido acetico • Réactif de Griess • Griess reattivo solución en acido acético

**Classification transport**  
ONU: 3265  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314-H318-HEU208  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Griess' reagent > RS - For nitrite detection

RS

Description ..... Clear pinkish liquid    Identification ..... Positive

Code	Size	Packaging	Notes
454481	1 l	Glass bottle	



## Griess' reagent A

Griess reagente A • Réactif A de Griess • Griess reattivo A

Synonym:

4-Aminobenzenesulfonic acid  
Aniline-4-sulfonic acid

$\text{C}_6\text{H}_7\text{NO}_3\text{S}$   
Molecular Weight: 173,19  
CAS: 121-57-3

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314-HEU208  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Griess' reagent A > RS - For nitrite detection

RS

Description ..... Clear pinkish liquid    Identification ..... Positive    Nitrite sensitivity ..... ≥ 1 mcg/ml

Code	Size	Packaging	Notes
454452	500 ml	Glass bottle	



## Griess' reagent B

Griess reagente B • Réactif B de Griess • Griess reactivo B

### Classification transport

ONU: 3265  
 Transport Hazard class: 8  
 Packing group II



### Danger

H314  
 P264-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

### Griess' reagent B > RS - For nitrite detection

RS

Description ..... Clear pinkish liquid    Identification ..... Positive    Nitrite sensitivity .....  $\geq 1$  mcg/ml

Code	Size	Packaging	Notes
454462	500 ml	Glass bottle	



## Gum arabic

Gomma arabica • Gomme arabique • Goma arábica

Synonym:  
*Acacia gum*

CAS: 9000-01-5  
 EEC-N: 232-519-5



### Warning

H319  
 P264-P280-P305+P351+P338-P337+P313

### Gum arabic > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White-yellowish granules    Starch and Dextrins ..... Conform Ph.Eur.    Total ash .....  $\leq 4.0$  %    Escherichia coli ..... Absent Ph.Eur.  
 Identification ..... Positive    Saccharose and fructose ..... Conform Ph.Eur.    **Microbial tests**    Salmonella ..... Absent Ph.Eur.  
 Agar and tragacanth ..... Conform Ph.Eur.    Tannin ..... Conform Ph.Eur.    TAMC .....  $\leq 10000$  CFU/g  
 Agar and sterculia ..... Conform Ph.Eur.    Loss on drying .....  $\leq 10.0$  %    TYMC .....  $\leq 100$  CFU/g

Code	Size	Packaging	Notes
347107	1 kg	Plastic bottle	

**Haemalum solution according to Carazzi**

Emallume reattivo soluzione secondo Carazzi • Hemalun en solution selon Carazzi • Emalume reactivo solución según Carazzi

HEU210

**Haemalum solution according to Carazzi > RS - For histology**

RS

Description .....Liquido rosso-bruno Identification .....Positive Density at 20°C .....1.086 ÷ 1.090 pH of the substance .....2.1 ÷ 2.3

Code	Size	Packaging	Notes
434351	250 ml	Glass bottle	
E434352	6 x 250 ml	Glass bottle	

CE **Dye for cytology****Haemalum solution according to Mayer**

Emallume reattivo secondo Mayer • Hemalun en solution selon Mayer • Emalume reactivo solución según Mayer

**Warning**

H302-H371

P264-P260-P270-P330-P301+P312a-P308+P311a

**Haemalum solution according to Mayer > RS - For histology**

RS

Description .....Clear purple liquid Identification .....Positive Assorbanza a 560 nm .....≥ 0.80

Code	Size	Packaging	Notes
446377	1 l	Plastic bottle	
446372	6 x 1 l	Plastic bottle	

CE

**Hafnium standard solution**

Afnio standard soluzione • Hafnium solution standard • Hafnio, solución patrón

**Classification transport**

ONU: 1760

Transport Hazard class: 8

Packing group III

**Hafnium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505642	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505645	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Hafnium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504221	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504225	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504223	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504227	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Hafnium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507741	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507506	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Hanus's reagent

Hanus reattivo • Réactif de Hanus • Hanus reactivo

### Classification transport

ONU: 2920  
Transport Hazard class: 8  
Packing group II



### Danger

H226-H314-H318-H373  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

### Hanus's reagent > RS - For detection of iodine index

RS

Description ..... Brown red liquid Identification ..... Positive Iodine value ..... ≥ 90

Code	Size	Packaging	Notes
E454872	1 l	Glass bottle	

### Hartshorn salt ▶ Ammonium carbonate

### Heavy water ▶ Deuterium oxide-d



## Hematoxylin

Ematossilina • Hématoxyline • Hematoxilina

Synonym:  
Natural Black 1

$C_{16}H_{14}O_6$   
Molecular Weight: 302,29  
CAS: 517-28-2  
EEC-N: 208-237-3



### Warning

H302-H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P330-  
P332+P313

### Hematoxylin > RS - For microscopy - C.I. 75290

RS

Description ..... Brown powder Loss on drying ..... 4 - 8 % Alcohol solubility ..... Conform  
Identification ..... Positive Assay ..... ≥ 75 % Melting point ..... ~ 140 °C

Code	Size	Packaging	Notes
446472	25 g	Glass bottle	
446473	100 g	Glass bottle	
446475	1 kg	Plastic bottle	

**Dye for cytology**



## Hematoxyline solution according to Mayer

Ematossilina soluzione secondo Mayer • Hématoxyline en solution selon Mayer •  
Hematoxilina solución según Mayer

Synonym:  
Natural Black 1

$C_{16}H_{14}O_6$   
Molecular Weight: 302,29  
CAS: 517-28-2

HEU210

### Hematoxyline solution according to Mayer > RS - For histology

RS

Description ..... Red-violet liquid Identification ..... Positive

Code	Size	Packaging	Notes
460511	100 ml	Bottle	
460512	6 x 100 ml	Bottle	
460513	1 l	Bottle	
460515	6 x 1 l	Bottle	

CE IVD

**Heptafluorobutyric acid**

Acido eptafluorobutirrico • Acide heptafluorobutyrique • Acido heptafluorobutirico

CF<sub>3</sub>(CF<sub>2</sub>)<sub>2</sub>COOH  
Molecular Weight: 214,04  
CAS: 375-22-4  
EEC-N: 206-786-3

**Classification transport**  
ONU: 3265  
Transport Hazard class: 8  
Packing group II

**Danger**

H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

**Heptafluorobutyric acid > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Density at 20° C ..... 1.64 ÷ 1.65 Assay (acidimetric) ..... ≥98.5 %  
Identification ..... Positive Boiling point ..... 120 ÷ 121 ° C

Code	Size	Packaging	Notes
405451	10 ml	Glass bottle	

**For derivatization****n-Heptane 99%**

n-Eptano 99% • n-Heptane 99% • n-Heptano 99%

CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>  
Molecular Weight: 100,21  
CAS: 142-82-5  
EEC-N: 205-563-8

**Classification transport**  
ONU: 1206  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H315-H336-H304-H410  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

**n-Heptane 99% > RS - For HPLC - Isocratic Grade****RS**

Description ..... Clear colourless liquid Water (K.F.) ..... ≤100 ppm U.V. Transmittance at 240 nm ..... ≥96 %  
Identification ..... Positive Residue on evaporation ..... ≤5 ppm at 200 nm ..... ≥20 % at 250 nm ..... ≥98 %  
Density at 20° C ..... 0.681 ÷ 0.687 Acidity or alkalinity ..... ≤0.00015 meq/g at 210 nm ..... ≥55 % at 260 nm ..... ≥99 %  
Refractive index at 20° C ..... 1.3836 ÷ 1.3916 Assay (GLC) ..... ≥99.2 % at 220 nm ..... ≥80 % Aromatic compounds ..... ≤5 ppm  
Boiling point ..... 97.9 ÷ 98.9 ° C at 230 nm ..... ≥92 %

Code	Size	Packaging	Notes
412591000	1 l	Glass bottle	
412592000	2.5 l	Glass bottle	

**n-Heptane 99% > RS - PESTIPUR - For pesticide analysis****RS**

Description ..... Clear liquid Colour ..... ≤10 APHA Free acids (HCOOH) ..... ≤10 ppm GC-ECD. Individual peak (Lindane) .. ≤3 ng/l  
Refractive index at 20° C ..... 1.386 - 1.390 Water ..... ≤5 ppm Not volatile residue ..... ≤5 ppm Retention time trichlorobenzene to mirex  
Identification ..... Positive Assay (GC) ..... ≥99 % GC-ECD (Lindano) ..... ≤3 ng/l Total sulphur (S) ..... ≤5 ppm

Code	Size	Packaging	Notes
446951	1 l	Glass bottle	
446952	2.5 l	Glass bottle	

**n-Heptane 99% > RS - SPECTROSOL - For optical spectroscopy****RS**

Description ..... Clear liquid Boiling point ..... 97.9 ÷ 98.9 ° C Assay (GC) ..... ≥99 % at 220 nm ..... ≥80 %  
Colour (APHA) ..... ≤10 Water (K.F.) ..... ≤100 ppm Aromatic compounds ..... ≤5 ppm at 230 nm ..... ≥92 %  
Identification ..... Positive Residue on evaporation ..... ≤5 ppm U.V. Transmittance at 250 nm ..... ≥98 %  
Density at 20° C ..... 0.681 ÷ 0.687 Acidity ..... ≤0.0005 meq/g at 200 nm ..... ≥20 %  
Refractive index at 20° C ..... 1.3836 ÷ 1.3916 Alkalinity ..... ≤0.0002 meq/g at 210 nm ..... ≥50 %

Code	Size	Packaging	Notes
446824	1 l	Glass bottle	

**n-Heptane 99% > RS - Anhydrous - For analysis****RS**

Refractive index at 20° C ..... 1.386 - 1.390 Colour ..... ≤10 Hazen Free acid (as CH<sub>3</sub>COOH) ..... ≤10 mg/Kg Density d<sub>20</sub>/4 ..... 0.681 - 0.687  
Water content (K.F.) ..... ≤50 mg/Kg Assay (GC) ..... ≥99 % Identification (IR) ..... Conform Total sulphur (S) ..... ≤5 ppm  
Non volatile residue ..... ≤10 mg/Kg Aromatic compounds ..... ≤50 mg/Kg Clear, colourless liq. appearance ..... Conform

Code	Size	Packaging	Notes
P0501016	1 l	Glass bottle	
P0501021	2.5 l	Glass bottle	

## n-Heptane 99% > RPE - For analysis

**RPE**

Description .....	Clear liquid	Ready carbonizable substances.....	Conform	Residue on evaporation .....	≤ 10 ppm	Aromatic compounds.....	≤ 50 ppm
Colour (APHA) .....	≤ 10	Density at 20° C .....	0.681 ÷ 0.687	Subst. reducing KMnO4 .....	≤ 20 ppm(5m)	Acidity (acetic acid).....	≤ 10 ppm
Identification .....	Conform	Refractive index at 20°C.....	1.3836 ÷ 1.3916	Tiophene .....	≤ 10 ppm		
Chloroform miscibility .....	Complete	Boiling point.....	97.4 ÷ 99.4 ° C	Total sulphur .....	≤ 5 ppm		
Diethyl ether miscib.....	Complete	Water (K.F.).....	≤ 100 ppm	Assay (GLC) .....	≥ 99.0 %		

Code	Size	Packaging	Notes
446787	1 l	Glass bottle	
446785	2.5 l	Glass bottle	
446781	5 l	Aluminium can	
446783	5 l	Plastic tank	
446782	18 kg	Metal drum	
446789	135 kg	Metal drum	
446788	200 l	Metal drum	

## n-Heptane 99% > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.679 ÷ 0.689	Water (K.F.) .....	≤ 150 ppm	Total sulphur .....	≤ 5 ppm
Identification .....	Positive	Refractive index at 20°C.....	1.3826 ÷ 1.3926	Residue on evaporation .....	≤ 20 ppm	Assay (GLC) .....	≥ 99 %
Colour .....	≤ 10 APHA	Boiling point.....	97.4 ÷ 99.4 ° C	Acidità (ac.acetico) .....	≤ 10 ppm	Aromatic compounds.....	≤ 50 ppm

Code	Size	Packaging	Notes
339381	1 l	Glass bottle	
339385	2.5 l	Glass bottle	
339382	5 l	Aluminium can	
528224	5 l	Plastic tank	
528228	10 l	Metal tank	
339386	18 kg	Metal drum	
528225	25 l	Metal drum	
528226	200 l	Metal drum	



## n-Heptane

n-Eptano • n-Heptane • n-Heptano

$\text{CH}_3(\text{CH}_2)_5\text{CH}_3$   
 Molecular Weight: 100,21  
 CAS: 142-82-5  
 EEC-N: 205-563-8

**Classification transport**  
 ONU: 1206  
 Transport Hazard class: 3  
 Packing group II


**Danger**

H225-H315-H336-H304-H410  
 P210-P241-P264-P273-P303+P361+P353-  
 P304+P340-P403+P235

## n-Heptane > RS - For HPLC - Isocratic Grade

**RS**

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 100 ppm	<b>U.V. Transmittance</b>	At 250 nm .....	≥ 98 %	
Identification .....	Positive	Residue on evaporation .....	≤ 5 ppm	at 200 nm .....	≥ 20 %	Aromatic compounds.....	≤ 10 ppm
Density at 20° C .....	0.681 - 0.687	Acidity or alkalinity.....	≤ 0.00015 meq/g	at 210 nm .....	≥ 45 %		
Refractive index at 20°C.....	1.386 - 1.390	Assay (GLC) .....	≥ 95 %	at 220 nm .....	≥ 80 %		

Code	Size	Packaging	Notes
446831	1 l	Glass bottle	
446832	2.5 l	Glass bottle	

## n-Heptane > RE - Pure

**RE**

Description .....	Clear colourless liquid	Identification .....	Positive	Water (K.F.) .....	≤ 100 ppm	Benzene .....	≤ 10 ppm
Colour .....	≤ 10 APHA	Residue on evaporation .....	≤ 10 ppm	Assay (GLC) .....	≥ 95.0 %	Aromatics .....	≤ 100 ppm

Code	Size	Packaging	Notes
508212	1 l	Glass bottle	
508215	5 l	Plastic tank	
508216	25 l	Metal drum	
508217	200 l	Metal drum	



**Heptane mixture of isomers**

Eptano miscela di isomeri • Heptane mélange d'isomères • Heptano mezcla de isómero

CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>  
Molecular Weight: 100,21  
CAS: 142-82-5

**Classification transport**

ONU: 1206  
Transport Hazard class: 3  
Packing group II

**Danger**

H225-H315-H336-H304-H411  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

**Heptane mixture of isomers > RS - PESTIPUR - For pesticide analysis****RS**

Appearance ..... Clear colourless liquid      Density at 15°C ..... 690 - 725 g/l      Aromatic compounds ..... ≤ 100 mg/Kg      Retention time trichlorobenzene to mirex  
Refractive index at 20°C ..... 1.387 - 1.407      Colour ..... ≤ 10 Hazen      Non volatile residue ..... ≤ 5 mg/Kg  
Water content (K.F.) ..... ≤ 50 mg/Kg      Distillation range ..... 85 - 105 °C      GC-ECD. Individual peak (Lindane) .. ≤ 3 ng/l

Code	Size	Packaging	Notes
446841	1 l	Glass bottle	
446842	2.5 l	Glass bottle	

**Heptane mixture of isomers > RPE - For analysis****RPE**

Appearance ..... Clear colourless liquid      Refractive index at 20°C ..... 1.387 - 1.407      End/initial boiling points difference ≤ 10 °C      Aromatic compounds ..... ≤ 100 mg/Kg  
Identification ..... Conform      Density at 15°C ..... 690 - 725 g/l      Water content (K.F.) ..... ≤ 100 mg/Kg      n-hexane ..... None %  
Colour ..... ≤ 10 Apha      Distillation range ..... 85 - 105 °C      Non volatile residue ..... ≤ 10 mg/Kg      Toluene ..... None mg/Kg

Code	Size	Packaging	Notes
524381	5 l	Plastic tank	

**Heptane mixture of isomers > RE - Pure****RE**

Description ..... Clear liquid      Refractive index at 20°C ..... 1,3870 ÷ 1,4070      Water (K.F.) ..... ≤ 150 ppm  
Identification ..... Positive      Density at 15°C ..... 0.690 ÷ 0.725      Residue on evaporation ..... ≤ 100 ppm  
Color ..... ≤ 10 APHA      Boiling point ..... 85 ÷ 105 °C      Aromatics (Thiophene) ..... ≤ 200 ppm

Code	Size	Packaging	Notes
528245	5 l	Plastic tank	
528246	25 l	Metal drum	
528247	200 l	Metal drum	

**1-Heptanesulphonic acid sodium salt**

Acido 1-eptansolfonico sale sodico • Acide 1-heptanesulfonique sel sodique • Acido 1-heptanosulfónico sal sódica

Synonym:  
Sodium 1-heptanesulfonate

C<sub>7</sub>H<sub>15</sub>O<sub>3</sub>SNa  
Molecular Weight: 202,25  
CAS: 22767-50-6  
EEC-N: 245-210-5

**1-Heptanesulphonic acid sodium salt > RS - For ion pair chromatography****RS**

Description ..... White crystalline powder      Assay ..... ≥ 99 %      at 220 nm ..... ≤ 0.04 AU      at 260 nm ..... ≤ 0.01 AU  
Identification ..... Positive      **Assorbanza (Sol. 0.25M)**      at 230 nm ..... ≤ 0.03 AU  
Loss on drying ..... ≤ 2 %      at 200 nm ..... ≤ 0.1 AU      at 240 nm ..... ≤ 0.01 AU  
pH sol 10% ..... 5.5 ÷ 7.5      at 210 nm ..... ≤ 0.05 AU      at 250 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405851	25 g	Glass bottle	
405852	100 g	Plastic bottle	



## Hexachloroplatinic acid hexahydrate

Acido esacloroplatinico esaidrato • Acide hexachloroplatinique hexahydraté • Acido hexaocloroplatinico hexahidrato

Synonym:  
Chloroplatinic acid hexahydrate

$H_2PtCl_6 \cdot 6H_2O$   
Molecular Weight: 517,92  
CAS: 18497-13-7  
EEC-N: 241-010-7



**Danger**  
H315-H319-H334-H317  
P264-P280-P285-P305+P351+P338-P342+P311a-P337+P313

### Hexachloroplatinic acid hexahydrate > RPE - For analysis

**RPE**

Description ..... Red-orange mass    Identification ..... Positive    Tracce tot. di metalli ..... ≤ 0.1 %    Assay ..... 38 ÷ 40 % Pt

Code	Size	Packaging	Notes
470017	1 g	Glass bottle	



## Hexadecane

Esadecano • Hexadécane • Hexadecano

Synonym:  
Cetane

$C_{16}H_{34}$   
Molecular Weight: 226,44  
CAS: 544-76-3  
EEC-N: 208-878-9



**Danger**  
H304  
P301+P310a-P331-P405-P501a

### Hexadecane > RE - Pure

**RE**

Refractive index at 20°C ..... 1.433 - 1.437    Assay (GC) ..... ≥ 99 %    Colour ..... ≤ 10 Hazen

Code	Size	Packaging	Notes
P0853016	1 l	Glass bottle	

1-Hexadecanol ▶ Cetyl alcohol

Hexadecyltrimethylammonium bromide ▶ Trimethylcetylammmonium bromide

Hexadecyltrimethylammonium p-toluenesulfonate ▶ Trimethylcetylammmonium p-toluenesulfonate

Hexafluoroacetylacetone ▶ 1,1,1-Trifluoroacetyltrifluoroacetone



## Hexafluoro-2-propanol

Esafuoro-2-propanolo • Hexafluoro-2-Propanol • Hexafluoro-2-Propanol

Synonym:  
Hexafluoroisopropanol  
HFP

$C_3H_2F_6O$   
Molecular Weight: 168,04  
CAS: 920-66-1  
EEC-N: 213-059-4

**Classification transport**  
ONU: 3265  
Transport Hazard class: 8  
Packing group II



**Danger**  
H302-H312-H332-H314  
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Hexafluoro-2-propanol > RPE - For analysis

**RPE**

Identification (IR) ..... Conform    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P6080503	100 ml	Glass bottle	
P6080518	500 ml	Glass bottle	

Hexahydrotoluene ▶ Methylcyclohexane



## Hexamethyldisilazane

Esametildisilazano • Hexaméthylsilazano • Hexametildisilazano

Synonym:  
HMDS

$(\text{CH}_3)_3\text{SiNHSi}(\text{CH}_3)_3$   
Molecular Weight: 161,4  
CAS: 999-97-3  
EEC-N: 213-668-5

**Classification transport**  
ONU: 3286  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H302-H311-H315-H319-H335  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### Hexamethyldisilazane > RPE - For analysis

RPE

Description ..... Clear liquid Identification ..... Positive Assay (GLC) .....  $\geq 97.5\%$   
Colour .....  $\leq 10$  APHA Refractive index at 20°C .....  $1.4060 \div 1.4090$

Code	Size	Packaging	Notes
446731	25 ml	Glass bottle	

#### For derivatization



## Hexamethylenetetramine

Esametilentetrammina • Hexaméthylènetétramine • Hexametilentetramina

Synonym:  
1,3,5,7-Tetraazatricyclo[3.3.1.1.3,7]decane  
Hexamine

$(\text{CH}_2)_6\text{N}_4$   
Molecular Weight: 140,19  
CAS: 100-97-0  
EEC-N: 202-905-8

**Classification transport**  
ONU: 1328  
Transport Hazard class: 4.1  
Packing group III



### Warning

H228-H317  
P210-P241-P280a-P261-P240-P333+P313

### Hexamethylenetetramine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... colourless/white crystalline powder pH sol. 1% .....  $7 \div 10$  Ash .....  $\leq 0.05\%$  Loss on drying 130°C .....  $\leq 2\%$   
Identification ..... Positive Water (K.F.) .....  $\leq 0.5\%$  Assay (alkalimetric) .....  $\geq 99.0\%$  Heavy metals (Pb) .....  $\leq 10$  ppm

Code	Size	Packaging	Notes
446875	250 g	Plastic bottle	
446876	1 kg	Plastic bottle	



## n-Hexane 99%

n-Esano 99% • n-Hexane 99% • n-Hexano 99%

$\text{CH}_3(\text{CH}_2)_4\text{CH}_3$   
Molecular Weight: 86,18  
CAS: 110-54-3  
EEC-N: 203-777-6

**Classification transport**  
ONU: 1208  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H361f-H336-H373-H304-H411  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

### n-Hexane 99% > RS - For HPLC - Isocratic Grade

RS

Clear, colourless liq. appearance ..... Conform Water content (K.F.) .....  $\leq 150$  mg/Kg UV transmittance at 230 nm .....  $\geq 90\%$  Total sulphur (S) .....  $\leq 5$  ppm  
Identification ..... Conform Aromatic compounds .....  $\leq 5$  mg/Kg UV transmittance at 245 nm .....  $\geq 98\%$   
Colour .....  $\leq 10$  Apha UV transmittance at 210 nm .....  $\geq 50\%$  Non volatile residue .....  $\leq 5$  mg/Kg  
Refractive index at 20°C ..... 1.373 - 1.377 UV transmittance at 220 nm .....  $\geq 80\%$  Assay (GC) .....  $\geq 99\%$

Code	Size	Packaging	Notes
412691	1 l	Glass bottle	
412692	2.5 l	Glass bottle	

### n-Hexane 99% > RS - ATRASOL - For analysis of volatile traces

RS

Refractive index at 20°C ..... 1.373 - 1.377 Assay (GC) .....  $\geq 99\%$  GC-ECD. Individual peak (CCl4) .....  $\leq 1$  µg/l  
Water content (K.F.) .....  $\leq 50$  mg/Kg GC (FID) - NC Atrasol ..... Conform Ret. time dichloromethane- trichloro-  
benz. GC-ECD. Individual peak (Lindane) .....  $\leq 2$  ng/l  
Colour .....  $\leq 10$  Hazen Non volatile residue .....  $\leq 2$  mg/Kg Retention time trichlorobenzene to mirex  
GC-FID. Individ. peak (hexadecane) .....  $\leq 5$  µg/l  
Retention time range over toluène

Code	Size	Packaging	Notes
P052323016	1 l	Glass bottle	
P052323021	2.5 l	Glass bottle	

## n-Hexane 99% > RS - PESTIPUR - For pesticide analysis

**RS**

Description ..... Clear liquid      Colour ..... ≤ 10 hazen      Not volatile residue ..... ≤ 2 mg/kg      GC-ECD (Lindane standard) ..... ≤ 3 ng/l  
 Identification ..... Positive      Assay (GLC) ..... ≥ 99 %      Water ..... ≤ 100 mg/kg      GC-NPD (Ethylparathion standard) ... ≤ 3 ng/l

Code	Size	Packaging	Notes
447111	1 l	Glass bottle	
447112000	2.5 l	Glass bottle	

## n-Hexane 99% > RS - SPECTROSOL - For optical spectroscopy

**RS**

Clear, colourless liq. appearance ..... Conform      Water content (K.F.) ..... ≤ 150 mg/Kg      Assay (GC) ..... ≥ 99 %      UV transmittance at 230 nm ..... ≥ 94 %  
 Identification ..... Conform      Total sulphur (S) ..... ≤ 5 ppm      UV transmittance at 210 nm ..... ≥ 60 %      UV transmittance at 245 nm ..... ≥ 98 %  
 Colour ..... ≤ 10 Apha      Aromatic compounds ..... ≤ 5 mg/Kg      UV transmittance at 215 nm ..... ≥ 70 %  
 Refractive index at 20°C ..... 1.373 - 1.377      Non volatile residue ..... ≤ 5 mg/Kg      UV transmittance at 220 nm ..... ≥ 80 %

Code	Size	Packaging	Notes
447051	1 l	Glass bottle	
447052	2.5 l	Glass bottle	

## n-Hexane 99% > RS - Anhydrous - For HPLC

**RS**

Refractive index at 20°C ..... 1.373 - 1.377      Aromatic compounds ..... ≤ 5 mg/Kg      UV transmittance at 230 nm ..... ≥ 90 %      Assay (GC) ..... ≥ 99 %  
 Water content (K.F.) ..... ≤ 50 mg/Kg      UV transmittance at 210 nm ..... ≥ 50 %      UV transmittance at 245 nm ..... ≥ 98 %      Total sulphur (S) ..... ≤ 5 ppm  
 Colour ..... ≤ 10 Hazen      UV transmittance at 220 nm ..... ≥ 80 %      Non volatile residue ..... ≤ 5 mg/Kg

Code	Size	Packaging	Notes
P05230S01/16	1 l	Glass bottle	
P05230S01/21	2.5 l	Glass bottle	

## n-Hexane 99% > RS - For analysis according to Ph. Eur. Chapter 2.2.25

**RS**

Code	Size	Packaging	Notes
506421	100 ml	Glass bottle	Spectrophotometry Bandwidth Blank

## n-Hexane 99% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Refractive index at 20°C ..... 1.373 ÷ 1.377      Total sulphur (S) ..... ≤ 5 ppm  
 Identification ..... Positive      Water (K.F.) ..... ≤ 100 ppm      Residue on evaporation ..... ≤ 10 ppm  
 Colour ..... ≤ 10 APHA      Aromatic compounds ..... ≤ 10 ppm      Assay (CPG) ..... ≥ 99 %

Code	Size	Packaging	Notes
447041	1 l	Glass bottle	
447042	2.5 l	Glass bottle	

## n-Hexane 99% > RE - Pure

**RE**

Description ..... Clear liquid      Density at 20°C ..... 0.658 ÷ 0.662      Residue on evaporation ..... ≤ 20 ppm      Total sulphur ..... ≤ 5 ppm  
 Colour ..... ≤ 10 APHA      Refractive index at 20°C ..... 1.373 ÷ 1.377      Water (K.F.) ..... ≤ 150 ppm      Assay (GLC) ..... ≥ 99 %  
 Identification ..... Positive      Boiling point ..... 68.2 ÷ 69.2 °C      Bromine rating ..... ≤ 1      Aromatic compounds ..... ≤ 50 ppm

Code	Size	Packaging	Notes
528950	5 l	Plastic tank	
528951	25 l	Metal drum	
528952	200 l	Metal drum	



## n-Hexane

n-Esano • n-Hexane • n-Hexano

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>  
Molecular Weight: 86,18  
CAS: 110-54-3  
EEC-N: 203-777-6

### Classification transport

ONU: 1208  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H361f-H336-H373-H304-H411  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

### n-Hexane > RS - For HPLC - Isocratic grade - Reag.Ph.Eur.

RS

Description ..... Clear colourless liquid	Residue on evaporation ..... ≤2 ppm	at 230 nm ..... ≥92 %	Density at 20°C ..... 0.659 - 0.663
Identification ..... Positive	Acidity or alkalinity ..... ≤0.00015 meq/g	at 240 nm ..... ≥95 %	UV Absorbance from 260 nm to 420 nm.. ≤ 0.01 AU
Density at 25° C ..... ≥0.662	Assay (GLC) ..... ≥96 %	At 245 nm ..... ≥ 98 %	
Refractive index at 20°C. 1.3750 ÷ 1.3760	<b>U.V. Transmittance</b>	at 250 nm ..... ≥99 %	
Boiling point ..... 67 - 69 ° C	at 210 nm ..... ≥50 %	Aromatic compounds ..... ≤ 10 ppm	
Water (K.F.) ..... ≤100 ppm	at 220 nm ..... ≥82 %	Total sulphur (S) ..... ≤ 5 ppm	

Code	Size	Packaging	Notes
412601000	1 l	Glass bottle	
412602000	2.5 l	Glass bottle	

### n-Hexane > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination

RS

Appearance ..... Clear colourless liquid	Colour ..... ≤ 5 Hazen	GC-ECD.Individual peak (Lindane) ..≤ 3 ng/l	<b>Retention time n-decane - n-tetracon-</b>
Identification ..... Conform	Water content (K.F.) ..... ≤ 50 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	<b>tane</b>
Density d20/4 ..... 0.655 - 0.665	Assay (GC) ..... ≥ 96.5 %	GC-FID.Hydrocarbon oil index...≤ 0.05 mg/l	GC-FID.Individual peak (C10-C40) ..≤ 5 µg/l
Refractive index at 20°C..... 1.373 - 1.377	Non volatile residue ..... ≤ 2 mg/Kg		

Code	Size	Packaging	Notes
P0523216	1 l	Glass bottle	
P0523221	2.5 l	Glass bottle	

### n-Hexane > RS - PESTIPUR - For pesticide analysis

RS

Description ..... Clear liquid	Refractive index at 20° C ..... 1.373 ÷ 1.377	GC-ECD (Lindano) ..... ≤ 3 ng/l
Identification ..... Positive	Water (K.F.) ..... ≤ 150 ppm	GC-NPD (Ethylparation) ..... ≤ 3 ng/l
Colour ..... ≤ 10 Hazen	Not volatile residue ..... ≤ 5 ppm	Assay (GLC) ..... ≥ 95 %

Code	Size	Packaging	Notes
447011	1 l	Glass bottle	
447012	2.5 l	Glass bottle	

### n-Hexane > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.

RS

Description ..... Clear liquid	Acidity or alkalinity ..... ≤0.00015 meq/g	Assay (GLC) ..... ≥95 %	at 250 nm ..... ≥99 %
Colour (APHA) ..... ≤10	Water (K.F.) ..... ≤100 ppm	<b>U.V. Transmittance</b>	UV Absorbance from 260 nm to 420 nm.. ≤ 0.01 AU
Density at 20°C ..... 0.659 ÷ 0.663	Residue on evaporation ..... ≤2 ppm	at 220 nm ..... ≥82 %	
Refractive index at 20°C..... 1.375 ÷ 1.376	Aromatic compounds ..... ≤5 ppm	at 230 nm ..... ≥92 %	
Boiling point ..... 67 ÷ 69 ° C	Total sulphur ..... ≤5 ppm	at 240 nm ..... ≥95 %	

Code	Size	Packaging	Notes
446934	1 l	Glass bottle	
446932	2.5 l	Glass bottle	

### n-Hexane > RS - Anhydrous - For analysis

RS

Refractive index at 20°C..... 1.373 - 1.377	Colour ..... ≤ 10 Hazen	Clear,colourless liq.appearance ..... Conform	Total sulphur (S) ..... ≤ 5 ppm
Water content (K.F.) ..... ≤ 50 mg/Kg	Assay (GC) ..... ≥ 95 %	Identification (IR) ..... Conform	
Non volatile residue ..... ≤ 10 mg/Kg	Aromatic compounds ..... ≤ 10 mg/Kg	Density d20/4 ..... 0.655 - 0.665	

Code	Size	Packaging	Notes
P0521016	1 l	Glass bottle	

## n-Hexane > RPE - For analysis - ACS - Reag. Ph.Eur.

**RPE**

Description .....	Clear liquid	Density at 20°C .....	0.659 ÷ 0.663	Tiophene .....	Conform ACS	Assay (GLC) .....	≥95 %
Colour (APHA) .....	≤10	Refractive index at 20°C.....	1.375 ÷ 1.376	Total sulphur .....	≤ 5 ppm	Assay (hexan isomer+methylcyclopentane)≥	98.5 %
Identification .....	Positive	Distillation range .....	67 ÷ 69 ° C	Cu .....	≤0.01 ppm	Aromatic compounds.....	≤ 10 ppm
Alcohol miscibility.....	Complete	Water (K.F.) .....	≤100 ppm	Fe .....	≤0.1 ppm	Al .....	≤ 0.5 ppm
Diethyl ether miscib.....	Complete	Residue on evaporation .....	≤10 ppm	Ni .....	≤0.01 ppm		
Chloroform miscibility .....	Complete	Water-soluble titrable acid .....	≤0.0003 meq/g	Pb .....	≤0.01 ppm		
Ready carbonizable substances.....	Conform	Subst. reducing KMnO4.....	≤20 ppm (5m)	Zn .....	≤0.01 ppm		

Code	Size	Packaging	Notes
446907	1 l	Glass bottle	
446902	2.5 l	Glass bottle PVC coated	
446903	2.5 l	Glass bottle	
446901	5 l	Aluminium can	
446991	5 l	Plastic tank	
446905	18 kg	Metal drum	
446904	130 kg	Metal drum	

## n-Hexane > RE - Pure

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.3699 ÷ 1.3799	Acidity (Caproic acid) .....	≤ 40 ppm	Total sulphur (S) .....	≤ 5 ppm
Identification .....	Positive	Boiling point.....	68.2 ÷ 69.2 °C	Assay (GLC) .....	≥ 95 %		
Tiophene .....	Conform	Water (K.F.) .....	≤ 100 ppm	Colour .....	≤ 10 APHA		
Density at 20° C .....	0.655 ÷ 0.665	Residue on evaporation .....	≤ 20 ppm	Aromatic compounds.....	≤ 50 ppm		

Code	Size	Packaging	Notes
339751	1 l	Glass bottle	
339755	2.5 l	Glass bottle	
339752	5 l	Plastic tank	
339756	18 kg	Metal drum	
339758	25 l	Metal drum	
339757	130 kg	Metal drum	
339759	200 l	Metal drum	



## Hexane mixture of isomers

Esano miscela di isomeri • Hexane mélange d'isomères • Hexano mezcla de isómeros

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>  
 Molecular Weight: 86,18  
 CAS: 110-54-3  
 EEC-N: 925-292-5

**Classification transport**  
 ONU: 1208  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H315-H361-H336-H373-H304-H411  
 P210-P241-P264-P273-P303+P361+P353-  
 P304+P340-P403+P235

## Hexane mixture of isomers > RS - For HPLC - Isocratic Grade

**RS**

Clear, colourless liq. appearance.....	Conform	Refractive index at 20°C.....	1.375 - 1.383	Total sulphur (S) .....	≤ 5 ppm	UV transmittance at 250 nm .....	≥ 98 %
Identification .....	Conform	Water content (K.F.) .....	≤ 150 mg/Kg	Non volatile residue.....	≤ 5 mg/Kg	UV transmittance at 260 nm .....	≥ 98 %
Colour .....	≤ 10 Hazen	Aromatic compounds.....	≤ 5 mg/Kg	UV transmittance at 240 nm .....	≥ 94 %		

Code	Size	Packaging	Notes
412632	1 l	Glass bottle	
412631	2.5 l	Glass bottle	

## Hexane mixture of isomers > RS - PESTIPUR - For pesticide analysis

**RS**

Description .....	Clear liquid	Refractive index at 20° C.....	1.375 ÷ 1.383	GC-ECD (Lindano) .....	≤ 3 ng/l
Identification .....	Positive	Water (K.F.) .....	≤ 150 ppm	GC-NPD (Ethylparation).....	≤ 3 ng/l
Colour .....	≤ 10 Hazen	Not volatile residue.....	≤ 5 ppm	GC-ECD (CCl <sub>4</sub> ).....	≤ 1 µg/l

Code	Size	Packaging	Notes
447181	1 l	Glass bottle	
447182	2.5 l	Glass bottle	

## Hexane mixture of isomers > RPE - For analysis

**RPE**

Clear, colourless liq. appearance	Conform	Refractive index at 20°C	1.375 - 1.383	GC chromatogram	Conform
Identification	Conform	Water content (K.F.)	≤ 100 mg/Kg	Aromatic compounds	≤ 50 mg/Kg
Colour	≤ 10 Apha	Non volatile residue	≤ 10 mg/Kg	Total sulphur (S)	≤ 5 ppm

Code	Size	Packaging	Notes
446892	1 l	Glass bottle	
446891	2.5 l	Glass bottle	
446893	25 l	Metal drum	

## Hexane mixture of isomers > RE - Pure

**RE**

Description	Clear colourless liquid	Refractive index at 20°C	1.3750 ÷ 1.3850	Aromatics	≤ 30 ppm
Identification	Positive	Boiling point	63 ÷ 70 °C	Residue on evaporation	≤ 50 ppm
Density at 20° C	0.665 ÷ 0.675	Water (K.F.)	≤ 200 ppm	Total sulphur	≤ 5 ppm

Code	Size	Packaging	Notes
339851	1 l	Glass bottle	
339852	2.5 l	Glass bottle	
528940	5 l	Plastic tank	
339856	18 kg	Metal drum	
528941	25 l	Metal drum	
528942	200 l	Metal drum	



## Hexane-d14

Esano-d14 • Hexane-d14 • Hexano-d14

 Synonym:  
Tetradecadeuterohexane

CD <sub>3</sub> (CD <sub>2</sub> ) <sub>4</sub> CD <sub>3</sub>	<b>Classification transport</b>
Molecular Weight: 100,26	ONU: 1208
CAS: 21666-38-6	Transport Hazard class: 3
	Packing group II

## Hexane-d14 > RS - For NMR - min 99%

**RS**

Code	Size	Packaging	Notes
P5472A	1 ml	Glass ampoule	

## Hexanedioic acid ► Adipic acid



## 1-Hexanesulphonic acid sodium salt

 Acido 1-esansolfonico sale sodico • Acide 1-hexanesulfonique sel sodique •  
Acido 1-hexanosulfónico sal sódica

 Synonym:  
Sodium hexanesulfonate

CH <sub>3</sub> (CH <sub>2</sub> ) <sub>5</sub> SO <sub>3</sub> Na	<b>Danger</b>
Molecular Weight: 188,22	H315-H319-H334-H317
CAS: 2832-45-3	P264-P280-P284-P304+P340-P305+P351+P338-
EEC-N: 220-601-3	P342+P311a



## 1-Hexanesulphonic acid sodium salt > RS - For ion pair chromatography

**RS**

Description	White crystalline powder	<b>Absorbance (0,25M)</b>	At 220 nm	≤ 0.04 AU	At 250 nm	≤ 0.01 AU	
Water (K.F.)	≤ 2.0 %	At 200 nm	≤ 0.1 AU	At 230 nm	≤ 0.03 AU	At 260 nm	≤ 0.01 AU
Assay	≥ 99.0 %	At 210 nm	≤ 0.05 AU	At 240 nm	≤ 0.01 AU		

Code	Size	Packaging	Notes
405621	25 g	Glass bottle	
405622	100 g	Plastic bottle	



## 1-Hexanesulphonic acid sodium salt monohydrate

Acido 1-esansolfonico sale sodico monoidrato • Acide 1-hexanesulfonique sel sodique monohydrate • Acido 1-hexanosulfónico sal sódica monohidrato

Synonym:  
Sodium 1-hexanesulfonate monohydrate  
1-Hexanesulfonic acid sodium salt monohydrate

$C_6H_{13}NaO_3S \cdot H_2O$   
Molecular Weight: 206,24  
CAS: 207300-91-2

### 1-Hexanesulphonic acid sodium salt monohydrate > RS - For ion pair chromatography

RS

Description ..... White crystalline powder    **Absorbance (0,25M)**    At 220 nm ..... ≤ 0.03 AU    At 250 nm ..... ≤ 0.01 AU  
Loss on drying ..... 7.0 - 9.0 %    At 200 nm ..... ≤ 0.1 AU    At 230 nm ..... ≤ 0.02 AU  
Assay ..... ≥ 99.0 %    At 210 nm ..... ≤ 0.05 AU    At 240 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405921	25 g	Glass bottle	
405922	100 g	Plastic bottle	

## Hexanoic acid ► n-Caproic acid



## Hippuric acid

Acido ippurico • Acide hippurique • Acido hipúrico

Synonym:  
Benzoylaminoacetic acid

$C_8H_5CONHCH_2COOH$   
Molecular Weight: 179,18  
CAS: 495-69-2  
EEC-N: 207-806-3

### Hippuric acid > RPE - For analysis

RPE

Description ..... White crystals    Chloride ..... ≤10 ppm    Residue on ignition ..... ≤100 ppm    Assay (acidimetric) ..... ≥99 %  
Identification ..... Positive    Heavy metals (Pb) ..... ≤20 ppm    Sulphate ..... ≤50 ppm  
Melting point ..... 189.0 ÷ 191.0 °C    Loss on drying ..... ≤0.5 %    Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
407012	25 g	Glass bottle	



## Histamine dihydrochloride

Istamina bicloridrato • Histamine dichlorhydraté • Histamina diclorhidrato

Synonym:  
2-(4-Imidazolyl)ethylamine dihydrochloride

$C_8H_{11}N_3 \cdot 2HCl$   
Molecular Weight: 184,07  
CAS: 56-92-8  
EEC-N: 200-298-4



**Danger**

H315-H319-H334-H317-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P342+P311a

### Histamine dihydrochloride > RPE - For analysis

RPE

Description ..... Yellowish crystalline powder    Loss on drying ..... ≤ 0.5 %    Assay (non-aqueous medium) ..... ≥ 98.5 %  
Identification ..... Positive    Residue on ignition ..... ≤ 0.1 %

Code	Size	Packaging	Notes
456851	10 g	Glass bottle	
456852	100 g	Glass bottle	





## L-Histidine hydrochloride monohydrate

L-Istidina monoclhidrato monohidrato • L-Histidine monochlorhydratée monohydraté • L-Histidina monoclhidrato monohidrato

Synonym:

L-Histidine monohydrochloride monohydrate  
L-alpha-Amino-beta-(4-imidazolyl)propanoic acid monohydrochloride

$C_8H_9N_3O_2 \cdot HCl \cdot H_2O$   
Molecular Weight: 191,66  
CAS: 645-35-2  
EEC-N: 211-438-9

### L-Histidine hydrochloride monohydrate > RPE - For analysis

RPE

Description White or almost white crystalline powder  
Identification ..... Positive

Sulfate .....  $\leq 300$  ppm ppm  
Ammonium .....  $\leq 200$  ppm  
Fe .....  $\leq 10$  ppm

Heavy metals (Pb) .....  $\leq 10$  ppm  
Loss on drying .....  $7.0 \div 10.0$  %  
Sulphated ash .....  $\leq 0.1$  %

pH sol. 5% .....  $3.0 \div 5.0$   
Assay (dried base) .....  $98.5 \div 101.0$  %

Code	Size	Packaging	Notes
456952	25 g	Glass bottle	
456951	500 g	Plastic bottle	



## Histolemon

Histolemon • Histolemon • Histolemon

Synonym:

Orange oil  
Citrus sinensis

CAS: 8028-48-6

### Classification transport

ONU: 2052  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H304-H400-H410-H315-H317  
P210-P280-P331-P403+P235-P405-P501a

### Histolemon > RS - For histology

RS

Description ..... Clear liquid  
Colour (APHA) .....  $\leq 25$

Identification ..... Positive  
Density at 20° C .....  $0.835 \div 0.845$

Assay (GLC) .....  $\geq 95$  %

Code	Size	Packaging	Notes
454911	1 l	Glass bottle	
454912	2.5 l	Glass bottle	
454915	5 l	Plastic tank	



## Holmium standard solution

Olmio standard soluzione • Holmium solution standard • Holmio, solución patrón

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group II

### Holmium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505657	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505658	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

### Holmium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504261	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504265	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504263	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504267	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Holmium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507742	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507507	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Holmium oxide

Olmio ossido • Holmium oxyde • Holmio oxido

Synonym:  
Holmium(III) oxide

$\text{Ho}_2\text{O}_3$   
Molecular Weight: 377,88  
CAS: 12055-62-8  
EEC-N: 235-015-3

## Holmium oxide > RPE - For analysis

RPE

Description ..... Yellowish powder Identification ..... Positive Assay ..... > 99.85 %

Code	Size	Packaging	Notes
466831	1 g	Glass bottle	



## Holmium perchlorate in solution

Olmio perclorato soluzione • Holmium perchlorate solution • Holmio perclorato solución

$\text{Ho}(\text{ClO}_4)_3$   
Molecular Weight: 481.30  
CAS: 14017-54-0

## Holmium perchlorate in solution > RS - For analysis according to Ph. Eur. Chapter 2.2.25

RS

Code	Size	Packaging	Notes
506472	10 ml	Sealed cuvette	
506473	100 ml	Glass bottle	

## Holmium perchlorate in solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043101	1 l	Glass bottle	Ref Ph.Eur 1043101



## Hyamine 1622

Hyamine 1622 • Hyamine 1622 • Hyamina 1622

Synonym:  
Benzethonium chloride  
(Diisobutylphenoxyethoxyethyl)dimethyl-  
benzylammonium chloride

$\text{C}_{27}\text{H}_{42}\text{ClNO}_2$   
Molecular Weight: 448,18  
CAS: 121-54-0  
EEC-N: 204-479-9

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

## Hyamine 1622 > RPE - For analysis - Reag. Ph.Eur.

RPE

Description ..... White powder Loss on drying ..... ≤ 5 % Assay (argentimetric) ..... ≥ 96.0 %  
Identification ..... Positive Melting point ..... 158 ± 163 °C

Code	Size	Packaging	Notes
454921	100 g	Plastic bottle	

**Hyamine 1622 solution 0.004M**

Hyamine 1622 soluzione 0.004M • Hyamine 1622 solution 0.004M • Hyamina 1622 solución 0.004M

Synonym:

Benzethonium chloride  
(Diisobutylphenoxyethoxyethyl)dimethyl-  
benzylammonium chloride $C_{27}H_{42}ClNO_2$ 

Molecular Weight: 448,18

CAS: 121-54-0

**Hyamine 1622 solution 0.004M > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613000901	100 ml	Plastic bottle	Ref Ph.Eur 3000900
613000900	1 l	Plastic bottle	Ref Ph.Eur 3000900

**Hyamine 1622 solution 0.004M > RS - For anionic surfactants detection**

RS

Description ..... Clear colourless liquid Identification ..... Positive Assay (at production) ..... 0.0035 ÷ 0.0045 Mol/l

Code	Size	Packaging	Notes
E454972	1 l	Glass bottle	

**Hydrazine dihydrochloride**

Idrazina dicloridrato • Hydrazine dichlorhydraté • Hidrazina diclorhidrato

Synonym:

Hydrazine dihydrochloride

 $NH_2NH_2 \cdot 2HCl$ 

Molecular Weight: 104,97

CAS: 5341-61-7

EEC-N: 226-283-2

**Classification transport**

ONU: 3288

Transport Hazard class: 6.1

Packing group III

**Danger**

H301-H311-H331-H317-H350-H410-HA26

P264-P273-P271-P304+P340-P301+P310a-

P308+P313

**Hydrazine dihydrochloride > RPE - For analysis**

RPE

Description ..... White crystalline powder Water-insoluble matter ..... ≤50 ppm Sulphate ..... ≤10 ppm  
Identification ..... Positive Heavy metals (Pb) ..... ≤5 ppm Fe ..... ≤5 ppm  
Melting point ..... 193.5 ÷ 202.5 °C Residue on ignition ..... ≤100 ppm Assay (oxidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
455054	100 g	Glass bottle	
455056	500 g	Plastic bottle	
455057	1 kg	Plastic bottle	

**Hydriodic acid 57%**

Acido iodidrico 57% • Acide iodhydrique 57% • Acido idriodico 57%

HI

Molecular Weight: 127,92

CAS: 10034-85-2

**Classification transport**

ONU: 1787

Transport Hazard class: 8

Packing group II

**Danger**

H314

P264-P280-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

**Hydriodic acid 57% > RPE - For analysis - ACS**

RPE

Description ..... Dark red-brown solution Free iodine (I) ..... ≤ 7500 ppm Sulfates ..... ≤ 50 ppm  
Identification ..... Positive Heavy metals (Pb) ..... ≤ 10 ppm Fe ..... ≤ 10 ppm  
Chloride + bromide (Cl) ..... ≤ 500 ppm Residue on ignition ..... ≤ 100 ppm Phosphates ..... ≤ 10 ppm

Code	Size	Packaging	Notes
406831	100 ml	Glass bottle	
406833	1 l	Glass bottle PVC coated	

**Stabilized with ~1,5% of hypophosphorous acid**



## Hydrobromic acid 48%

Acido bromidrico 48% • Acide bromhydrique 48% • Acido bromhídrico 48%

HBr  
Molecular Weight: 80,92  
CAS: 10035-10-6

**Classification transport**  
ONU: 1788  
Transport Hazard class: 8  
Packing group III



### Danger

H314-H335+H336  
P260-P303+P361+P353-P305+P351+P338-P310-  
P405-P501a

### Hydrobromic acid 48% > RPE - For analysis - ACS - ISO

### RPE

Description .....	Yellow clear liquid	Total phosphorus.....	≤ 2 ppm	Sulphite.....	≤ 25 ppm	Se.....	≤ 0.01 ppm
Identification .....	Positive	Iodide.....	≤ 2 ppm	As.....	≤ 0.5 ppm	Assay (acidimetric) .....	47.0 ÷ 49.0 %
Organic substances.....	Conform	Heavy metals (Pb).....	≤ 2 ppm	Ca.....	≤ 10 ppm		
Density at 20° C .....	1.473 ÷ 1.503	Residue on ignition.....	≤ 20 ppm	Fe.....	≤ 1 ppm		
Chloride.....	≤ 200 ppm	Sulphate.....	≤ 5 ppm	Mg.....	≤ 5 ppm		

Code	Size	Packaging	Notes
402925	250 ml	Bottle	
402922	1 l	Bottle	



## Hydrochloric acid 37%

Acido cloridrico 37% • Acide chlorhydrique 37% • Acido clorhídrico 37%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



### Danger

H290-H314-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Hydrochloric acid 37% > RS - VLSI For electronic use

### RS

Code	Size	Packaging	Notes
527601	1 l	Plastic bottle	
527600	2.5 l	Glass bottle	

*For specifications, contact our customer service for a certificate of analysis*

### Hydrochloric acid 37% > RS - RSE - For electronic use

### RS

Description .....	Clear liquid	Sulphite.....	≤0.5 ppm	Cr.....	≤0.01 ppm	Ni.....	≤0.01 ppm
Colour (APHA) .....	≤10	Ag.....	≤0.02 ppm	Cu.....	≤0.005 ppm	Pb.....	≤0.05 ppm
Identification .....	Positive	Al.....	≤0.05 ppm	Fe.....	≤0.1 ppm	Pt.....	≤0.05 ppm
Assay (acidimetric) .....	≥36.5 %	As.....	≤0.005 ppm	Ga.....	≤0.02 ppm	Sb.....	≤0.005 ppm
Density at 20° C .....	1.183 ÷ 1.189	Au.....	≤0.05 ppm	Hg.....	≤0.1 ppm	Sn.....	≤0.02 ppm
Ammonium.....	≤1 ppm	B.....	≤0.02 ppm	In.....	≤0.02 ppm	Sr.....	≤0.02 ppm
Bromide.....	≤2 ppm	Ba.....	≤0.05 ppm	K.....	≤0.1 ppm	Ta.....	≤0.1 ppm
Free chlorine.....	≤0.5 ppm	Be.....	≤0.02 ppm	Li.....	≤0.02 ppm	Ti.....	≤0.05 ppm
Phosphate.....	≤0.1 ppm	Bi.....	≤0.02 ppm	Mg.....	≤0.1 ppm	Tl.....	≤0.05 ppm
Heavy metals (Pb).....	≤0.1 ppm	Ca.....	≤0.5 ppm	Mn.....	≤0.01 ppm	V.....	≤0.05 ppm
Residue on ignition.....	≤2 ppm	Cd.....	≤0.005 ppm	Mo.....	≤0.05 ppm	Zn.....	≤0.02 ppm
Sulphate.....	≤0.5 ppm	Co.....	≤0.01 ppm	Na.....	≤0.5 ppm	Zr.....	≤0.05 ppm

Code	Size	Packaging	Notes
403977	1 l	Glass bottle	
403971	2.5 l	Glass bottle	

### Hydrochloric acid 37% > RS - MOS For electronic use

### RS

Description .....	Clear liquid	Sulphite.....	≤0.5 ppm	Cr.....	≤0.01 ppm	Ni.....	≤0.01 ppm
Colour (APHA) .....	≤10	Ag.....	≤0.02 ppm	Cu.....	≤0.005 ppm	Pb.....	≤0.05 ppm
Identification .....	Positive	Al.....	≤0.05 ppm	Fe.....	≤0.1 ppm	Pt.....	≤0.05 ppm
Assay (acidimetric) .....	≥36.5 %	As.....	≤0.005 ppm	Ga.....	≤0.02 ppm	Sb.....	≤0.005 ppm
Density at 20° C .....	1.183 ÷ 1.189	Au.....	≤0.05 ppm	Hg.....	≤0.1 ppm	Sn.....	≤0.02 ppm
Ammonium.....	≤1 ppm	B.....	≤0.02 ppm	In.....	≤0.02 ppm	Sr.....	≤0.02 ppm
Bromide.....	≤2 ppm	Ba.....	≤0.05 ppm	K.....	≤0.1 ppm	Ta.....	≤0.1 ppm
Free chlorine.....	≤0.5 ppm	Be.....	≤0.02 ppm	Li.....	≤0.02 ppm	Ti.....	≤0.05 ppm
Phosphate.....	≤0.1 ppm	Bi.....	≤0.02 ppm	Mg.....	≤0.1 ppm	Tl.....	≤0.05 ppm
Heavy metals (Pb).....	≤0.1 ppm	Ca.....	≤0.5 ppm	Mn.....	≤0.01 ppm	V.....	≤0.05 ppm
Residue on ignition.....	≤2 ppm	Cd.....	≤0.005 ppm	Mo.....	≤0.05 ppm	Zn.....	≤0.02 ppm
Sulphate.....	≤0.5 ppm	Co.....	≤0.01 ppm	Na.....	≤0.5 ppm	Zr.....	≤0.05 ppm

Code	Size	Packaging	Notes
403942	1 l	Glass bottle	
403941	2.5 l	Glass bottle	

**Hydrochloric acid 37% > RPE - For analysis - ISO****RPE**

Description .....	Clear liquid	Residue on ignition .....	≤5 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.02 ppm
Colour (APHA) .....	≤10	Sulphate .....	≤1 ppm	Cr .....	≤0.02 ppm	Pb .....	≤0.05 ppm
Identification .....	Positive	Sulphite .....	≤0.5 ppm	Cu .....	≤0.01 ppm	Sr .....	≤0.02 ppm
Density at 20° C .....	1.181 ÷ 1.189	Al .....	≤0.2 ppm	Fe .....	≤0.2 ppm	Ti .....	≤0.05 ppm
Residue on evaporation .....	≤100 ppm	As .....	≤0.01 ppm	Hg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Ammonium .....	≤1 ppm	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	V .....	≤ 0.5 ppm
Bromide .....	≤50 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.3 ppm	Zn .....	≤0.05 ppm
Free chlorine .....	≤ 4 ppm	Bi .....	≤0.05 ppm	Mn .....	≤0.01 ppm	Zr .....	≤0.05 ppm
Phosphate .....	≤0.5 ppm	Ca .....	≤0.5 ppm	Mo .....	≤0.05 ppm	Assay (acidimetric) .....	≥36.5 %
Heavy metals (Pb) .....	≤ 1 ppm	Cd .....	≤0.005 ppm	Na .....	≤0.5 ppm		

Code	Size	Packaging	Notes
403871	1 l	Glass bottle	
403876	1 l	Glass bottle PVC coated	
524525	1 l	Plastic bottle	
403872	2.5 l	Glass bottle	
524526	2.5 l	Plastic bottle	
403878	5 l	Tank	
403874	25 kg	Plastic drum	

**Hydrochloric acid 37% > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF-FU-Ph.Franc.-BP-JP****ERBApharm**

Description .....	Clear colourless liquid	Free chlorine or bromide..	Conform USP-NF	Residue on evaporation .....	≤ 100 ppm	Assay (acidimetric) .....	36.5 ÷ 38.0 %
Identification .....	Positive	Sulphite .....	Conform USP-NF	Residue on ignition .....	≤ 80 ppm	As .....	≤ 1 ppm
Appearance of solution .....	Conform Ph.Eur.	Sulphate .....	Conform USP-NF	Free chlorine .....	≤ 4 ppm	Hg .....	≤ 0.04 ppm
Bromide or iodide .....	Conform USP-NF	Density at 20° C .....	~ 1.18	Heavy metals (Pb) .....	≤ 2 ppm		

Code	Size	Packaging	Notes
302621	1 l	Glass bottle	
302626	2.5 l	Glass bottle	
302643	5 l	Plastic tank	
302624	10 l	Plastic tank	
302623	25 kg	Plastic drum	
302622	40 kg	Plastic tank	
302627	55 kg	Plastic tank	
302625	220 kg	Polythene-metal drum	

**Hydrochloric acid 37% > RE - Pure****RE**

Assay .....	36.0 ÷ 38.5 %	Residue on ignition .....	≤ 20 ppm	Heavy metals .....	≤ 5 ppm	Free chloride (Cl) .....	≤ 20 ppm
Description .....	Clear colourless liquid or yellowish	Density at 20°C .....	1.183 ÷ 1.189	Assay (acidimetric) .....	36.5 - 37.5 %	Iron (Fe) .....	≤ 2 ppm

Code	Size	Packaging	Notes
528525	5 l	Tank	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z



## Hydrochloric acid 34-37%

Acido cloridrico 34-37% • Acide chlorhydrique 34-37% • Acido clorhidrico 34-37%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Hydrochloric acid 34-37% > RS - Superpure - For trace analysis at ppb level

RS

Description .....	Clear liquid	Fe .....	≤ 1 ppb	Assay (acidimetric) .....	34 ÷ 37 %	Nb .....	≤ 0.1 ppb
Identification .....	Positive	Hg .....	≤ 0.1 ppb	Th .....	≤ 0.1 ppb	Pr .....	≤ 0.1 ppb
Bromide .....	≤ 10 ppm	K .....	≤ 1 ppb	U .....	≤ 0.1 ppb	Re .....	≤ 0.1 ppb
Free chlorine .....	≤ 0.5 ppm	Li .....	≤ 0.1 ppb	Colour (APHA) .....	≤ 10	Rh .....	≤ 0.1 ppb
Total phosphorus .....	≤ 0.01 ppm	Mg .....	≤ 0.5 ppb	Ce .....	≤ 0.1 ppb	Rb .....	≤ 0.1 ppb
Total sulphur .....	≤ 0.3 ppm	Mn .....	≤ 0.1 ppb	Cs .....	≤ 0.1 ppb	Ru .....	≤ 0.1 ppb
Ag .....	≤ 1 ppb	Mo .....	≤ 0.1 ppb	Dy .....	≤ 0.1 ppb	Sm .....	≤ 0.1 ppb
Al .....	≤ 1 ppb	Na .....	≤ 1 ppb	Er .....	≤ 0.1 ppb	Sc .....	≤ 0.1 ppb
As .....	≤ 0.5 ppb	Ni .....	≤ 0.5 ppb	Eu .....	≤ 0.1 ppb	Te .....	≤ 0.1 ppb
B .....	≤ 1 ppb	Pb .....	≤ 0.1 ppb	Gd .....	≤ 0.1 ppb	Tb .....	≤ 0.1 ppb
Ba .....	≤ 0.1 ppb	Sb .....	≤ 0.5 ppb	Ga .....	≤ 0.1 ppb	Tl .....	≤ 0.1 ppb
Be .....	≤ 0.1 ppb	Se .....	≤ 1 ppb	Au .....	≤ 0.5 ppb	Tm .....	≤ 0.1 ppb
Bi .....	≤ 0.1 ppb	Sn .....	≤ 0.5 ppb	Hf .....	≤ 0.1 ppb	W .....	≤ 0.1 ppb
Ca .....	≤ 1 ppb	Sr .....	≤ 0.1 ppb	Ho .....	≤ 0.1 ppb	Yb .....	≤ 0.1 ppb
Cd .....	≤ 0.1 ppb	Ti .....	≤ 0.5 ppb	In .....	≤ 0.1 ppb	Y .....	≤ 0.1 ppb
Co .....	≤ 0.1 ppb	V .....	≤ 0.5 ppb	La .....	≤ 0.1 ppb		
Cr .....	≤ 0.5 ppb	Zn .....	≤ 1 ppb	Lu .....	≤ 0.1 ppb		
Cu .....	≤ 0.5 ppb	Zr .....	≤ 0.1 ppb	Nd .....	≤ 0.1 ppb		

Code	Size	Packaging	Notes
403915	500 ml	Plastic bottle	
403916	1 l	Plastic bottle	
403917	2.5 l	Plastic bottle	



## Hydrochloric acid 32-35%

Acido cloridrico 32-35% • Acide chlorhydrique 32-35% • Acido clorhidrico 32-35%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314-H318-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Hydrochloric acid 32-35% > RS - Ultrapure - For trace analysis at ppt level

RS

Description .....	Clear colourless liquid	Cs .....	≤ 10 ppt	U .....	≤ 1 ppt	Rh .....	≤ 10 ppt
Identification .....	Positive	Cu .....	≤ 10 ppt	Th .....	≤ 1 ppt	Rb .....	≤ 10 ppt
Ag .....	≤ 10 ppt	Dy .....	≤ 1 ppt	Sb .....	≤ 20 ppt	Ru .....	≤ 10 ppt
Al .....	≤ 20 ppt	Mn .....	≤ 10 ppt	Gd .....	≤ 1 ppt	Sm .....	≤ 1 ppt
As .....	≤ 50 ppt	Eu .....	≤ 1 ppt	Ga .....	≤ 10 ppt	Sc .....	≤ 10 ppt
Au .....	≤ 50 ppt	Fe .....	≤ 10 ppt	Hf .....	≤ 10 ppt	Te .....	≤ 1 ppt
B .....	≤ 100 ppt	Ni .....	≤ 20 ppt	Ho .....	≤ 1 ppt	Tb .....	≤ 1 ppt
Ba .....	≤ 10 ppt	Pb .....	≤ 1 ppt	In .....	≤ 1 ppt	Tm .....	≤ 1 ppt
Be .....	≤ 10 ppt	Sn .....	≤ 20 ppt	La .....	≤ 1 ppt	W .....	≤ 10 ppt
Bi .....	≤ 10 ppt	Sr .....	≤ 10 ppt	Li .....	≤ 10 ppt	Yb .....	≤ 1 ppt
Ca .....	≤ 10 ppt	Tl .....	≤ 10 ppt	Lu .....	≤ 10 ppt	Y .....	≤ 1 ppt
Cd .....	≤ 10 ppt	Ti .....	≤ 10 ppt	Nd .....	≤ 1 ppt	Zr .....	≤ 10 ppt
Ce .....	≤ 10 ppt	V .....	≤ 10 ppt	Nb .....	≤ 1 ppt		
Co .....	≤ 10 ppt	Zn .....	≤ 10 ppt	Pr .....	≤ 1 ppt		
Cr .....	≤ 10 ppt	Assay (acidimetric) .....	32 ÷ 35 %	Re .....	≤ 10 ppt		

Code	Size	Packaging	Notes
403891	500 ml	Plastic bottle	



## Hydrochloric acid 32% (20°Bé)

Acido cloridrico 32% (20°Bé) • Acide chlorhydrique 32% (20°Bé) • Acido clorhidrico 32% (20°Bé)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Hydrochloric acid 32% (20°Bé) > RE - Pure

RE

Description ..... Yellow clear liquid Density at 20° C ..... ≥1.154 Assay (acidimetric) ..... ≥31.0 %

Code	Size	Packaging	Notes
302664	25 kg	Plastic drum	(20°Bé)



## Hydrochloric acid 32%

Acido cloridrico 32% • Acide chlorhydrique 32% • Acido clorhidrico 32%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Hydrochloric acid 32% > RPE - For analysis - ISO

RPE

Description ..... Clear liquid	Sulphate ..... ≤0.8 ppm	Cr ..... ≤0.02 ppm	Pb ..... ≤0.05 ppm
Colour (APHA) ..... ≤10	Sulphite ..... ≤0.5 ppm	Cu ..... ≤0.01 ppm	Sr ..... ≤0.02 ppm
Identification ..... Positive	Al ..... ≤0.05 ppm	Fe ..... ≤0.1 ppm	Ti ..... ≤0.05 ppm
Density at 20° C ..... 1.159 - 1.164	As ..... ≤0.01 ppm	Hg ..... ≤0.1 ppm	Tl ..... ≤0.05 ppm
Ammonium ..... ≤1 ppm	Ba ..... ≤0.1 ppm	Li ..... ≤0.02 ppm	V ..... ≤0.5 ppm
Bromide ..... ≤50 ppm	Be ..... ≤0.02 ppm	Mg ..... ≤0.3 ppm	Zn ..... ≤0.05 ppm
Free chlorine ..... ≤ 4 ppm	Bi ..... ≤0.05 ppm	Mn ..... ≤0.01 ppm	Zr ..... ≤0.05 ppm
Phosphate ..... ≤0.5 ppm	Ca ..... ≤0.5 ppm	Mo ..... ≤0.05 ppm	Assay (acidimetric) ..... 32.0 - 33.0 %
Heavy metals (Pb) ..... ≤1 ppm	Cd ..... ≤0.005 ppm	Na ..... ≤0.5 ppm	
Residue on ignition ..... ≤5 ppm	Co ..... ≤0.01 ppm	Ni ..... ≤0.02 ppm	

Code	Size	Packaging	Notes
403981	2.5 l	Glass bottle	
403984	2.5 l	Plastic bottle	
403982	25 kg	Plastic drum	
403986	55 kg	Plastic drum	
403988	220 kg	Plastic drum	

### Hydrochloric acid 32% > RE - Pure

RE

Description ... Clear colourless or light yellow liquid Free chlorine ..... ≤100 ppm Residue on ignition ..... ≤0.1 % Fe ..... ≤2 ppm  
Heavy metals (Pb) ..... ≤50 ppm Sulphate ..... ≤200 ppm Assay ..... 32 ÷ 34 %  
Density at 20° C ..... 1.157 - 1.171

Code	Size	Packaging	Notes
302601	1 l	Glass bottle	
302602	25 kg	Fibre drum	
302604	30 kg	Plastic drum	



## Hydrochloric acid 29 - 31 %

Acido cloridrico 29 - 31 % • Acide chlorhydrique 29 - 31 % • Acido clorhidrico 29 - 31 %

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0  
EEC-N: 231-595-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Hydrochloric acid 29 - 31 % > RS - Superpure - For trace analysis at ppb level

RS

Code	Size	Packaging	Notes
403921	1 l	Plastic bottle	



## Hydrochloric acid 26%

Acido cloridrico 26% • Acide chlorhydrique 26% • Acido clorhidrico 26%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Hydrochloric acid 26% > RE - Pure

RE

HCl content ..... 25 - 27 %

Code	Size	Packaging	Notes
PS0769/20	2.5 l		



## Hydrochloric acid 25% w/v

Acido cloridrico 25% p/v • Acide chlorhydrique 25% m/v • Acido clorhidrico 25% p/v

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a

### Hydrochloric acid 25% w/v > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043501	1 l	Plastic bottle	Hydrochloric acid R1 Ref Ph.Eur 1043501



## Hydrochloric acid 23%

Acido cloridrico 23% • Acide chlorhydrique 23% • Acido clorhidrico 23%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a

### Hydrochloric acid 23% > RPE - For analysis - ISO

RPE

Description .....	Clear liquid	Sulphate .....	≤0.8 ppm	Cu .....	≤0.01 ppm	Sr .....	≤0.02 ppm
Colour (APHA) .....	≤10	Sulphite .....	≤0.5 ppm	Fe .....	≤0.1 ppm	Ti .....	≤0.05 ppm
Identification .....	Positive	Al .....	≤0.05 ppm	Hg .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Density at 20° C .....	1.113 - 1.119	As .....	≤0.01 ppm	Li .....	≤0.02 ppm	V .....	≤0.5 ppm
Ammonium .....	≤1 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.3 ppm	Zn .....	≤0.05 ppm
Bromide .....	≤50 ppm	Bi .....	≤0.05 ppm	Mn .....	≤0.03 ppm	Zr .....	≤0.05 ppm
Free chlorine .....	≤4 ppm	Ca .....	≤0.5 ppm	Mo .....	≤0.05 ppm	Assay (acidimetric) .....	23.0 - 24.0 %
Phosphate .....	≤0.5 ppm	Cd .....	≤0.005 ppm	Na .....	≤0.5 ppm		
Heavy metals (Pb) .....	≤1 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.02 ppm		
Residue on ignition .....	≤5 ppm	Cr .....	≤0.02 ppm	Pb .....	≤0.05 ppm		

Code	Size	Packaging	Notes
403901	1 l	Glass bottle	
403905	2.5 l	Glass bottle	
403909	25 kg	Plastic drum	



## Hydrochloric acid 20%

Acido cloridrico 20% • Acide chlorhydrique 20% • Acido clorhidrico 20%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a

### Hydrochloric acid 20% > RE - Pure

RE

Assay ..... 19 - 21 %

Code	Size	Packaging	Notes
PS0751/29	5 l	Plastic tank	





## Hydrochloric acid 12%

Acido cloridrico 12% • Acide chlorhydrique 12% • Acido clorhidrico 12%

HCl  
Molecular Weight: 36.46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Hydrochloric acid 12% > RS - For analysis

RS

Assay ..... 11.5 - 12.5 % Clear liquid appearance ..... Conform Colour ..... ≤ J7  
Density d20/4 ..... 1.055 - 1.060 Identification ..... Conform

Code	Size	Packaging	Notes
PS0347/22	5 l	Plastic tank	
PS0347/49	25 l	Plastic tank	
PS0347/66	200 l	Combined drum	



## Hydrochloric acid 10%

Acido cloridrico 10% • Acide chlorhydrique 10% • Acido clorhidrico 10%

HCl  
Molecular Weight: 36.46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Hydrochloric acid 10% > ERBApharm - According to pharmacopoeia : Ph.Eur.

ERBApharm

Description ..... Clear colourless liquid Free chlorine ..... ≤ 1 ppm Residue on evaporation ..... ≤ 100 ppm  
Identification ..... Positive Sulphate ..... ≤ 5 ppm Assay ..... 9.5 - 10.5 % (m/m)  
Appearance ..... Conform Ph.Eur. Heavy metals (Pb) ..... ≤ 2 ppm Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
302591	10 kg	Plastic tank	

### Hydrochloric acid 10% > RE - Pure

RE

Hydrochloric acid content ..... 9.9 - 10.1 %

Code	Size	Packaging	Notes
PS0768/41	10 l	Plastic tank	



## Hydrochloric acid 8%

Acido cloridrico 8% • Acide chlorhydrique 8% • Acido clorhidrico 8%

HCl  
Molecular Weight: 36.46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 8% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Free chlorine ..... ≤ 0.5 ppm Sulphite ..... ≤ 1 ppm Assay (acidimetric) ..... 8.0 - 9.0 %  
Density at 20° C ..... 1.037 - 1.043 Heavy metals (Pb) ..... ≤ 1 ppm As ..... ≤ 0.01 ppm  
Ammonium ..... ≤ 30 ppm Sulphate ..... ≤ 1 ppm Fe ..... ≤ 0.3 ppm

Code	Size	Packaging	Notes
404033	10 kg	Plastic tank	
404036	55 kg	Plastic tank	



## Hydrochloric acid 5%

Acido cloridrico 5% • Acide chlorhydrique 5% • Acido cloridrico 5%

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 5% > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Hydrochloric acid content..... 4.5 - 5.5 %

Code	Size	Packaging	Notes
PS0864/41	10 l	Plastic tank	



## Hydrochloric acid 1.128% (m/v)

Acido cloridrico 1.128% (m/v) • Acide chlorhydrique 1.128% (m/v) • Acido cloridrico 1.128% (m/v)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 1.128% (m/v) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 1.123 ÷ 1.133 % m/v

Code	Size	Packaging	Notes
502761	1 l	Plastic bottle	



## Hydrochloric acid 6 mol/l (6N)

Acido cloridrico 6 mol/l (6N) • Acide chlorhydrique 6 mol/l (6N) • Acido cloridrico 6 mol/l (6N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Hydrochloric acid 6 mol/l (6N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 5.97 ÷ 6.03 N Colour ..... ≤ 10 Hazen

Code	Size	Packaging	Notes
502831	1 l	Plastic bottle	
502832	18 l	Plastic tank	

**Store between 15-30 °C**

### Hydrochloric acid 6 mol/l (6N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001500	1 l	Plastic bottle	Ref Ph.Eur 3001500

### Hydrochloric acid 6 mol/l (6N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Assay (potentiometric) ..... 5.9 ÷ 6.1 mol/L

Code	Size	Packaging	Notes
528651	25 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

### Hydrochloric acid 6 mol/l (6N) > RE - Pure

RE

Description ..... Clear colourless liquid Colour ..... ≤ 10 Hazen Assay ..... 5.95 ÷ 6.05 N

Code	Size	Packaging	Notes
528550000	5 l	Plastic tank	



## Hydrochloric acid 5 mol/l (5N)

Acido cloridrico 5 mol/l (5N) • Acide chlorhydrique 5 mol/l (5N) • Acido clorhidrico 5 mol/l (5N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Hydrochloric acid 5 mol/l (5N) > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Assay (potentiometric) ..... 4.99 - 5.01 mol/L

Code	Size	Packaging	Notes
528731	25 l	Plastic tank	

### Hydrochloric acid 5 mol/l (5N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 4.995 - 5.005 N

Code	Size	Packaging	Notes
P3160015	1 l	Plastic bottle	
P3160095	5 l	Kubidos	



## Hydrochloric acid 4 mol/l (4N)

Acido cloridrico 4 mol/l (4N) • Acide chlorhydrique 4 mol/l (4N) • Acido clorhidrico 4 mol/l (4N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Hydrochloric acid 4 mol/l (4N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 3.992 ÷ 4.008 N

Code	Size	Packaging	Notes
502010	1 l	Plastic bottle	

**145,84 g of HCl. Ready-to-use. Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed**

### Hydrochloric acid 4 mol/l (4N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 3.992 - 4.008 N

Code	Size	Packaging	Notes
PS0589/15	1 l	Plastic bottle	
PS0589/22	5 l	Plastic tank	
PS0589/49	25 l	Plastic tank	

### Hydrochloric acid 4 mol/l (4N) > ERBapharm - Prepared from raw material according Ph.Eur

ERBapharm

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....3.8 - 4.2 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
528681	1 l	Plastic bottle	



## Hydrochloric acid 3 mol/l (3N)

Acido cloridrico 3 mol/l (3N) • Acide chlorhydrique 3 mol/l (3N) • Acido clorhidrico 3 mol/l (3N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Hydrochloric acid 3 mol/l (3N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 2.95 ÷ 3.05 N

Code	Size	Packaging	Notes
502621	1 l	Plastic bottle	
502622	2.5 l	Plastic bottle	
502011	25 l	Plastic tank	



## Hydrochloric acid 2 mol/l (2N)

Acido cloridrico 2 mol/l (2N) • Acide chlorhydrique 2 mol/l (2N) • Acido clorhidrico 2 mol/l (2N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 2 mol/l (2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001700	1 l	Plastic bottle	Ref Ph.Eur 3001700

### Hydrochloric acid 2 mol/l (2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 723.....e

Code	Size	Packaging	Notes
404067000	1 l	Plastic bottle	
404062000	5 l	Kubidos	
404061000	10 l	Kubidos	

**72.92 g of HCl. Volumetric solution ready-to-use. Traceable to NIST**

### Hydrochloric acid 2 mol/l (2N) > ERBapharm - Prepared from raw material according Ph.Eur

ERBapharm

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....1.9 -2.1 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
528691	1 l	Glass bottle	



## Hydrochloric acid 1 mol/l (1N)

Acido cloridrico 1 mol/l (1N) • Acide chlorhydrique 1 mol/l (1N) • Acido clorhidrico 1 mol/l (1N)

HCl  
Molecular Weight: 36.46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 1 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613001801	500 ml	Plastic bottle	Ref Ph.Eur 3001800
613001800	1 l	Plastic bottle	Ref Ph.Eur 3001800

### Hydrochloric acid 1 mol/l (1N) > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000191	1 l	Plastic bottle	

**Hydrochloric acid 1 mol/l (1N) > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP**

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
528673	5 l	Kubidos	
528671	10 l	Kubidos	
528672	200 l	Polythene-metal drum	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed****Hydrochloric acid 1 mol/l (1N) > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 723.....e

Code	Size	Packaging	Notes
404097000	1 l	Plastic bottle	
404092000	5 l	Kubidos	
404091000	10 l	Kubidos	
404094000	20 l	Plastic tank	

**36.46 g of HCl. Volumetric solution ready-to-use. Traceable to NIST****Hydrochloric acid 1 mol/l (1N) > RPE - NORMEX - For analysis**

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404111		Plastic ampoule	Volume : 165 ml

**36,46 g HCl. Volumetric concentrated solution to prepare 1 L of solution 1 N****Hydrochloric acid 1 mol/l (1N) > ERBApharm - Prepared from raw material according Ph.Eur**


ERBApharm

Clear, colourless liquid..... Conform Assay (Ph.Eur)..... 0.95 - 1.05 N Residual solvents (Current ICH)..... Conform  
Identification (Ph.Eur)..... Conform Origine (BSE-TSE)..... Conform

Code	Size	Packaging	Notes
528583	1 l	Bottle	
528582	3 l	Plastic tank	
528584	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed****Hydrochloric acid 0.714 mol/l (N/1.4)**

Acido cloridrico 0.714 mol/l (N/1.4) • Acide chlorhydrique 0.714 mol/l (N/1.4) • Acido clorhídrico 0.714 mol/l (N/1.4)

HCl	<b>Classification transport</b>		<b>Warning</b>
Molecular Weight: 36,46	ONU: 1789		H290
CAS: 7647-01-0	Transport Hazard class: 8		P234-P390-P406
	Packing group III		

**Hydrochloric acid 0.714 mol/l (N/1.4) > RS - For agroalimentary analysis**

RS

Description ..... Clear colourless liquid Assay ..... 0.710 ÷ 0.718 N

Code	Size	Packaging	Notes
526531	10 l	Kubidos	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**



## Hydrochloric acid 0.5 mol/l (0.5N)

Acido cloridrico 0.5 mol/l (0.5N) • Acide chlorhydrique 0.5 mol/l (0.5N) • Acido clorhidrico 0.5 mol/l (0.5N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 0.5 mol/l (0.5N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 723 ..... 9

Code	Size	Packaging	Notes
404147000	1 l	Plastic bottle	
404142000	5 l	Kubidos	
404141000	10 l	Kubidos	

**18,23 g of HCl. Volumetric solution ready-to-use. Traceable to NIST**

### Hydrochloric acid 0.5 mol/l (0.5N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404161		Plastic ampoule	Volume : 165 ml

**18,230 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0,5 N**



## Hydrochloric acid 0.2 mol/l (0.2N)

Acido cloridrico 0.2 mol/l (0.2N) • Acide chlorhydrique 0.2 mol/l (0.2N) • Acido clorhidrico 0.2 mol/l (0.2N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 0.2 mol/l (0.2N) > RS - For agroalimentary analysis

**RS**

Description ..... Clear colourless liquid Assay ..... 0.195 ÷ 0.205 N

Code	Size	Packaging	Notes
502631	1 l	Plastic bottle	

**7,292 g of HCl. Ready-to-use solution according to NF V04-242. Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed**



## Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2

Acido cloridrico 0.2 mol/l (0.2N) in isopropanolo • Acide chlorhydrique 0.2 mol/l (0.2N) dans propanol-2 • Acido clorhidrico 0.2 mol/l (0.2N) en propanol-2

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 2733  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Hydrochloric acid 0.2 mol/l (0.2N) in propanol-2 > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Color ..... ≤ 10 APHA Assay ..... 0,195 ÷ 0,205 N

Code	Size	Packaging	Notes
526535	1 l	Glass bottle	

**Hydrochloric acid 0.1 mol/l (0.1N)**

Acido cloridrico 0.1 mol/l (0.1N) • Acide chlorhydrique 0.1 mol/l (0.1N) • Acido cloridrico 0.1 mol/l (0.1N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III**Warning**  
H290  
P234-P390-P406**Hydrochloric acid 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613002101	500 ml	Plastic bottle	Ref Ph.Eur 3002100
613002100	1 l	Plastic bottle	Ref Ph.Eur 3002100

**Hydrochloric acid 0.1 mol/l (0.1N) > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Clear colourless liquid Assay (potentiometric) ..... 0.0998 - 0.1002 mol/L

Code	Size	Packaging	Notes
528573	5 l	Kubidos	
528571	10 l	Kubidos	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed****Hydrochloric acid 0.1 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 723.....e

Code	Size	Packaging	Notes
404197000	1 l	Plastic bottle	
404192000	5 l	Kubidos	
404191000	10 l	Kubidos	
404195000	10 l	Plastic tank	

**3.646 g of HCl. Volumetric solution ready-to-use : 0.1N. Traceable to NIST****Hydrochloric acid 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404211		Plastic ampoule	Volume : 55 ml

**3,646 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0,1 N****Hydrochloric acid 0.1 mol/l (0.1N) > ERBApharm - Prepared from raw material according Ph.Eur****ERBApharm**Clear, colourless liquid ..... Conform Assay (Ph.Eur) ..... 0.095 - 0.105 N Residual solvents (Current ICH) ..... Conform  
Identification (Ph.Eur) ..... Conform Origine (BSE-TSE) ..... Conform

Code	Size	Packaging	Notes
528661	1 l	Glass bottle	
528662	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed****Hydrochloric acid 0.1 mol/l (0.1N) in ethanol**

Acido cloridrico 0.1 mol/l (0.1N) in etanolo • Acide chlorhydrique 0.1 mol/l (0.1N) dans l'éthanol • Acido cloridrico 0.1 mol/l (0.1N) en etanol

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0**Classification transport**  
ONU: 1993**Hydrochloric acid 0.1 mol/l (0.1N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613008800	1 l	Glass bottle	Ref Ph.Eur 3008800



## Hydrochloric acid 0.1 mol/l (0.1N) in propanol-2

Acido cloridrico 0.1 mol/l (0.1N) in isopropanolo • Acide chlorhydrique 0.1 mol/l (0.1N) dans propanol-2 • Acido clorhidrico 0.1 mol/l (0.1N) en propanol-2

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1219  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Hydrochloric acid 0.1 mol/l (0.1N) in propanol-2 > RPE - For analysis

**RPE**

Description ..... Clear liquid Color ..... ≤ 10 APHA Assay ..... 0,095 ÷ 0.105 N

Code	Size	Packaging	Notes
526536	1 l	Plastic bottle	



## Hydrochloric acid 0.0714 mol/l (N/14)

Acido cloridrico 0.0714 mol/l (N/14) • Acide chlorhydrique 0.0714 mol/l (N/14) • Acido clorhidrico 0.0714 mol/l (N/14)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 0.0714 mol/l (N/14) > RS - For agroalimentary analysis

**RS**

Description ..... Clear colourless liquid Assay ..... 0.0710 ÷ 0.0718 N

Code	Size	Packaging	Notes
526533	10 l	Kubidos	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**



## Hydrochloric acid 0.05 mol/l (0.05N)

Acido cloridrico 0.05 mol/l (0.05N) • Acide chlorhydrique 0.05 mol/l (0.05N) • Acido clorhidrico 0.05 mol/l (0.05N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 0.05 mol/l (0.05N) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.0499 - 0.0501 N

Code	Size	Packaging	Notes
PS0587/15	1 l	Plastic bottle	
PS0587/22	5 l	Plastic tank	



## Hydrochloric acid 0.02 mol/l (0.02N)

Acido cloridrico 0.02 mol/l (0.02N) • Acide chlorhydrique 0.02 mol/l (0.02N) • Acido clorhidrico 0.02 mol/l (0.02N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

### Hydrochloric acid 0.02 mol/l (0.02N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (acidimetric) ..... 0.01996 ÷ 0.02004 mol/L

Code	Size	Packaging	Notes
PS0342/15	1 l	Plastic bottle	
526537	5 l	Plastic tank	





### Hydrochloric acid 0.01 mol/l (0.01N)

Acido cloridrico 0.01 mol/l (0.01N) • Acide chlorhydrique 0.01 mol/l (0.01N) • Acido clorhidrico 0.01 mol/l (0.01N)

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290  
P234-P390-P406

#### Hydrochloric acid 0.01 mol/l (0.01N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.00998 - 0.01002 N NIST 84 .....

Code	Size	Packaging	Notes
404267	1 l	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

#### Hydrochloric acid 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
404251		Plastic ampoule	Volume : 55 ml

**0,3646 g HCl. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**



### Hydrochloric acid-d 1 mol/l

Acido cloridrico-d 1 mol/l • Acide chlorhydrique-d 1 mol/l • Acido clorhidrico-d 1 mol/l

DCI  
Molecular Weight: 37,47  
CAS: 7698-05-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

#### Hydrochloric acid-d 1 mol/l > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5695	25 ml	Glass bottle	



### Hydrochloric acid-d 20%

Acido cloridrico-d 20% • Acide chlorhydrique-d 20% • Acido clorhidrico-d 20%

Synonym:  
Deuterium chloride  
Deutero-hydrochloric acid

DCI  
Molecular Weight: 37,47  
CAS: 7698-05-7

**Classification transport**  
ONU: 1789  
Transport Hazard class: 8  
Packing group II

#### Hydrochloric acid-d 20% > RS - For NMR - min 99.95%

RS

Code	Size	Packaging	Notes
P5685	25 ml	Glass bottle	



### Hydrochloric acid, dilute

Acido cloridrico diluito • Acide chlorhydrique diluée • Acido clorhidrico diluido

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

HEU210

#### Hydrochloric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 2.2.2

RS

Code	Size	Packaging	Notes
612202400	1 l	Plastic bottle	Dilution matrix HCl 10g/L

## Hydrochloric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043503	1 l	Plastic bottle	Ref Ph.Eur 1043503
611043504	1 l	Plastic bottle	Hydrochloric acid, dilute R1 Ref Ph.Eur 1043504



## Hydrochloric acid, brominated

Acido cloridrico bromurato • Acide chlorhydrique bromé • Acido clorhídrico brominado

HCl  
Molecular Weight: 36,46  
CAS: 7647-01-0

**Classification transport**  
ONU: 2922  
Transport Hazard class: 8  
Packing group I



### Danger

H330-H314-H318  
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Hydrochloric acid, brominated > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611043507	1 l	Glass bottle	Ref Ph.Eur 1043507



## Hydrofluoric acid 50%

Acido fluoridrico 50% • Acide fluorhydrique 50% • Acido fluorhídrico 50%

HF  
Molecular Weight: 20  
CAS: 7664-39-3

**Classification transport**  
ONU: 1790  
Transport Hazard class: 8  
Packing group II



### Danger

H310-H330-H314  
P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Hydrofluoric acid 50% > RS - RSE - For electronic use

RS

Description	Clear liquid	Sulphate	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.05 ppm
Colour (APHA)	≤10	Sulphite	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm
Identification	Positive	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.02 ppm
Assay (acidimetric)	49.0 ÷ 51.0 %	Al	≤0.05 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Density at 20°C	~ 1.17	As	≤0.03 ppm	Ga	≤0.02 ppm	Sn	≤0.02 ppm
Hydrofluosilicic acid	≤20 ppm	Au	≤0.02 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Chloride	≤1 ppm	B	≤0.02 ppm	K	≤0.1 ppm	Ta	≤0.1 ppm
Phosphate	≤0.5 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	Ti	≤0.1 ppm
Heavy metals (Pb)	≤0.1 ppm	Be	≤0.01 ppm	Mg	≤0.1 ppm	Tl	≤0.02 ppm
Nitrate	≤3 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.01 ppm
Residue on ignition	≤5 ppm	Ca	≤0.1 ppm	Mo	≤0.01 ppm	Zn	≤0.05 ppm
Subst. reducing KMnO4	≤4 ppm	Cd	≤0.01 ppm	Na	≤0.2 ppm	Zr	≤0.01 ppm

Code	Size	Packaging	Notes
405737	1 l	Plastic bottle	

Considered as toxic gas

## Hydrofluoric acid 50% > RS - MOS For electronic use

RS

Description	Clear colourless liquid	Sulphate	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Sulphite	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm
Identification	Positive	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.02 ppm
Assay (acidimetric)	49.0 ÷ 51.0 %	Al	≤0.05 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Density at 20°C	1.152 ÷ 1.158	As	≤0.03 ppm	Ga	≤0.02 ppm	Sn	≤0.02 ppm
Hydrofluosilicic acid	≤20 ppm	Au	≤0.02 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Chloride	≤1 ppm	B	≤0.02 ppm	K	≤0.1 ppm	Ta	≤0.1 ppm
Phosphate	≤0.5 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	Ti	≤0.1 ppm
Heavy metals (Pb)	≤0.1 ppm	Be	≤0.01 ppm	Mg	≤0.1 ppm	Tl	≤0.02 ppm
Nitrate	≤3 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.01 ppm
Residue on ignition	≤5 ppm	Ca	≤0.1 ppm	Mo	≤0.01 ppm	Zn	≤0.05 ppm
Subst. reducing KMnO4	≤4 ppm	Cd	≤0.01 ppm	Na	≤0.2 ppm	Zr	≤0.01 ppm

Code	Size	Packaging	Notes
405653	1 l	Plastic bottle	

Considered as toxic gas

## Hydrofluoric acid 50% > RPE - For analysis - ACS - ISO

**RPE**

Description .....	Clear liquid	Sulphate .....	≤2 ppm	Co .....	≤0.02 ppm	Ni .....	≤0.05 ppm
Colour (APHA) .....	≤10	Sulphite .....	≤2 ppm	Cr .....	≤0.05 ppm	Pb .....	≤0.2 ppm
Identification .....	Positive	Ag .....	≤0.02 ppm	Cu .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Density at 20° C .....	1.152 ÷ 1.158	Al .....	≤0.05 ppm	Fe .....	≤0.2 ppm	Ti .....	≤0.1 ppm
Hydrofluosilicic acid .....	≤20 ppm	As .....	≤0.05 ppm	K .....	≤0.1 ppm	Tl .....	≤0.05 ppm
Chloride .....	≤1 ppm	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	V .....	≤0.05 ppm
Phosphate .....	≤0.5 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.2 ppm	Zn .....	≤0.05 ppm
Heavy metals (Pb) .....	≤0.5 ppm	Bi .....	≤0.1 ppm	Mn .....	≤0.05 ppm	Zr .....	≤0.1 ppm
Residue on ignition .....	≤5 ppm	Ca .....	≤0.5 ppm	Mo .....	≤0.05 ppm	Assay (acidimetric) .....	49 ÷ 51 %
Subst. reducing KMnO4 .....	≤4 ppm	Cd .....	≤0.01 ppm	Na .....	≤0.5 ppm		

Code	Size	Packaging	Notes
405722	1 l	Plastic bottle	
405728	5 l	Plastic bottle	

Considered as toxic gas



## Hydrofluoric acid 47-51%

Acido fluoridrico 47-51% • Acide fluorhydrique 47-51% • Acido fluorídrico 47-51%

HF  
Molecular Weight: 20  
CAS: 7664-39-3

### Classification transport

ONU: 1790  
Transport Hazard class: 8  
Packing group II



### Danger

H310-H330-H314  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Hydrofluoric acid 47-51% > RS - Ultrapure - For trace analysis at ppt level

**RS**

Description .....	Clear liquid	Er .....	≤ 1 ppt	Mo .....	≤ 10 ppt	Te .....	≤ 1 ppt
Identification .....	Positive	Eu .....	≤ 1 ppt	Nd .....	≤ 1 ppt	Tb .....	≤ 1 ppt
Al .....	≤ 20 ppt	Gd .....	≤ 1 ppt	Ni .....	≤ 20 ppt	Tl .....	≤ 10 ppt
Sb .....	≤ 20 ppt	Ga .....	≤ 10 ppt	Nb .....	≤ 10 ppt	Th .....	≤ 1 ppt
As .....	≤ 50 ppt	Ge .....	≤ 10 ppt	Pd .....	≤ 20 ppt	Tm .....	≤ 1 ppt
Ba .....	≤ 10 ppt	Au .....	≤ 20 ppt	Pt .....	≤ 20 ppt	Sn .....	≤ 20 ppt
Be .....	≤ 10 ppt	Hf .....	≤ 10 ppt	K .....	≤ 10 ppt	Ti .....	≤ 20 ppt
Bi .....	≤ 10 ppt	Ho .....	≤ 1 ppt	Pr .....	≤ 1 ppt	W .....	≤ 20 ppt
B .....	≤ 100 ppt	In .....	≤ 1 ppt	Re .....	≤ 10 ppt	U .....	≤ 1 ppt
Cd .....	≤ 10 ppt	Fe .....	≤ 10 ppt	Rh .....	≤ 10 ppt	V .....	≤ 10 ppt
Ca .....	≤ 10 ppt	La .....	≤ 10 ppt	Rb .....	≤ 20 ppt	Yb .....	≤ 1 ppt
Ce .....	≤ 10 ppt	Pb .....	≤ 10 ppt	Ru .....	≤ 20 ppt	Y .....	≤ 1 ppt
Cs .....	≤ 10 ppt	Li .....	≤ 10 ppt	Sm .....	≤ 1 ppt	Total sulphur .....	≤ 100 ppb
Cr .....	≤ 10 ppt	Lu .....	≤ 1 ppt	Sc .....	≤ 10 ppt	Zr .....	≤ 10 ppt
Co .....	≤ 10 ppt	Mg .....	≤ 10 ppt	Ag .....	≤ 10 ppt	Assay .....	47 ÷ 51 %
Cu .....	≤ 10 ppt	Mn .....	≤ 10 ppt	Na .....	≤ 10 ppt		
Dy .....	≤ 1 ppt	Hg .....	≤ 50 ppt	Sr .....	≤ 10 ppt		

Code	Size	Packaging	Notes
405611	500 ml	Plastic bottle	

## Hydrofluoric acid 47-51% > RS - Superpure - For trace analysis at ppb level

**RS**

Description .....	Clear liquid	Cr .....	≤ 1 ppb	Mg .....	≤ 1 ppb	Ag .....	≤ 0.5 ppb
Identification .....	Positive	Co .....	≤ 0.1 ppb	Mn .....	≤ 0.1 ppb	Na .....	≤ 1 ppb
Colour (APHA) .....	≤ 10	Cu .....	≤ 0.5 ppb	Hg .....	≤ 1 ppb	Sr .....	≤ 0.1 ppb
Chloride .....	≤ 4 ppm	Dy .....	≤ 0.1 ppb	Mo .....	≤ 0.1 ppb	Te .....	≤ 0.1 ppb
Total phosphorus .....	≤ 0.05 ppm	Er .....	≤ 0.1 ppb	Nd .....	≤ 0.1 ppb	Tb .....	≤ 0.1 ppb
Total sulphur .....	≤ 0.1 ppm	Eu .....	≤ 0.1 ppb	Ni .....	≤ 0.5 ppb	Tl .....	≤ 0.1 ppb
Hydrofluosilicic acid .....	≤ 20 ppm	Gd .....	≤ 0.1 ppb	Nb .....	≤ 0.1 ppb	Th .....	≤ 0.1 ppb
Al .....	≤ 1 ppb	Ga .....	≤ 0.1 ppb	Pd .....	≤ 0.2 ppb	Tm .....	≤ 0.1 ppb
Sb .....	≤ 0.2 ppb	Ge .....	≤ 0.1 ppb	Pt .....	≤ 0.2 ppb	Sn .....	≤ 0.5 ppb
As .....	≤ 0.5 ppb	Au .....	≤ 0.2 ppb	K .....	≤ 1 ppb	Ti .....	≤ 1 ppb
Ba .....	≤ 0.1 ppb	Hf .....	≤ 0.1 ppb	Pr .....	≤ 0.1 ppb	W .....	≤ 0.5 ppb
Be .....	≤ 0.1 ppb	Ho .....	≤ 0.1 ppb	Re .....	≤ 0.1 ppb	U .....	≤ 0.1 ppb
Bi .....	≤ 0.1 ppb	In .....	≤ 0.1 ppb	Rh .....	≤ 0.1 ppb	V .....	≤ 0.1 ppb
B .....	≤ 1 ppb	Fe .....	≤ 1 ppb	Rb .....	≤ 0.1 ppb	Yb .....	≤ 0.1 ppb
Cd .....	≤ 0.1 ppb	La .....	≤ 0.1 ppb	Ru .....	≤ 0.1 ppb	Y .....	≤ 0.1 ppb
Ca .....	≤ 1 ppb	Pb .....	≤ 0.1 ppb	Sm .....	≤ 0.1 ppb	Zn .....	≤ 1 ppb
Ce .....	≤ 0.1 ppb	Li .....	≤ 0.1 ppb	Sc .....	≤ 0.1 ppb	Zr .....	≤ 0.1 ppb
Cs .....	≤ 0.1 ppb	Lu .....	≤ 0.1 ppb	Se .....	≤ 1 ppb	Assay .....	47 ÷ 51 %

Code	Size	Packaging	Notes
405716	500 ml	Plastic bottle	



## Hydrofluoric acid 39.5%

Acido fluoridrico 39,5% • Acide fluorhydrique 39.5% • Acido fluorhídrico 39.5%

HF

Molecular Weight: 20

CAS: 7664-39-3

### Classification transport

ONU: 1790

Transport Hazard class: 8

Packing group II



### Danger

H300-H310-H330-H314-H318

P264-P271-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

### Hydrofluoric acid 39.5% > RPE - For analysis - ACS - ISO

RPE

Description .....	Clear colourless liquid	Sulphate .....	≤ 2 ppm	Co .....	≤ 0.02 ppm	Ni .....	≤ 0.02 ppm
Identification .....	Positive	Sulphite .....	≤ 2 ppm	Cr .....	≤ 0.05 ppm	Pb .....	≤ 0.05 ppm
Density at 20° C .....	1.127 ÷ 1.133	Ag .....	≤ 0.02 ppm	Cu .....	≤ 0.02 ppm	Sr .....	≤ 0.02 ppm
Assay (acidimetric) .....	39.1 ÷ 39.9 %	Al .....	≤ 0.05 ppm	Fe .....	≤ 0.2 ppm	Ti .....	≤ 0.1 ppm
Hydrofluosilicic acid .....	≤ 20 ppm	As .....	≤ 0.05 ppm	K .....	≤ 0.1 ppm	Tl .....	≤ 0.05 ppm
Chloride .....	≤ 1 ppm	Ba .....	≤ 0.1 ppm	Li .....	≤ 0.02 ppm	V .....	≤ 0.05 ppm
Phosphate .....	≤ 0.5 ppm	Be .....	≤ 0.02 ppm	Mg .....	≤ 0.2 ppm	Zn .....	≤ 0.05 ppm
Heavy metals (Pb) .....	≤ 0.5 ppm	Bi .....	≤ 0.1 ppm	Mn .....	≤ 0.05 ppm	Zr .....	≤ 0.1 ppm
Residue on ignition .....	≤ 5 ppm	Ca .....	≤ 0.5 ppm	Mo .....	≤ 0.05 ppm		
Subst. reducing KMnO4 .....	≤ 4 ppm	Cd .....	≤ 0.01 ppm	Na .....	≤ 0.5 ppm		

Code	Size	Packaging	Notes
405761	1 l	Plastic bottle	
405765	5 l	Plastic bottle	

### Hydrofluoric acid 39.5% > RE - Pure

RE

Description .....	Clear colourless liquid	Residue on ignition .....	≤ 0.5 %	Fe .....	≤ 500 ppm
Identification .....	Positive	Sulphate .....	≤ 1 %	Assay (acidimetric) .....	38.0 ÷ 39.9 %

Code	Size	Packaging	Notes
303731	1 l	Plastic bottle	



## Hydrogen peroxide solution 40% w/v

Perossido di idrogeno soluzione 40% m/v • Eau oxygénée solution 40% m/v • Hidrógeno peróxido solución 40% p/v

H<sub>2</sub>O<sub>2</sub>

Molecular Weight: 34,01

CAS: 7722-84-1

### Classification transport

ONU: 2014

Transport Hazard class: 5.1

Packing group II



### Danger

H302-H315-H318-H335

P264-P271-P280-P304+P340-

P305+P351+P338-P330

### Hydrogen peroxide solution 40% w/v > RE - Pure - Stabilized

RE

Description .....	Clear colourless liquid	Identification .....	Positive	Density at 18° C .....	1.127 ÷ 1.137	Assay (oxidimetric) .....	≥ 39 % m/v
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Code	Size	Packaging	Notes
307701	1 l	Plastic bottle	
307708	5 l	Plastic bottle	
307709	60 kg	Plastic tank	



## Hydrogen peroxide solution 30-32%

Perossido di idrogeno soluzione 30-32% • Eau oxygénée solution 30-32% • Hidrógeno peróxido solución 30-32%

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 34,01  
CAS: 7722-84-1

**Classification transport**  
ONU: 2014  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H318-H302  
P280-P270-P305+P351+P338-P301+P312

### Hydrogen peroxide solution 30-32% > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear colourless liquid	Er	≤ 1 ppt	Mo	≤ 10 ppt	Ta	≤ 10 ppt
Identification	Positive	Eu	≤ 1 ppt	Nd	≤ 1 ppt	Te	≤ 1 ppt
Al	≤ 50 ppt	Gd	≤ 1 ppt	Ni	≤ 20 ppt	Tb	≤ 1 ppt
Sb	≤ 10 ppt	Ga	≤ 10 ppt	Nb	≤ 10 ppt	Tl	≤ 1 ppt
As	≤ 100 ppt	Ge	≤ 10 ppt	Pd	≤ 10 ppt	Th	≤ 1 ppt
Ba	≤ 10 ppt	Au	≤ 10 ppt	K	≤ 20 ppt	Tm	≤ 1 ppt
Be	≤ 10 ppt	Hf	≤ 1 ppt	Pr	≤ 1 ppt	Sn	≤ 50 ppt
Bi	≤ 10 ppt	Ho	≤ 10 ppt	Re	≤ 20 ppt	Ti	≤ 1 ppt
B	≤ 100 ppt	In	≤ 1 ppt	Rh	≤ 10 ppt	W	≤ 20 ppt
Cd	≤ 10 ppt	Fe	≤ 20 ppt	Rb	≤ 10 ppt	U	≤ 1 ppt
Ca	≤ 100 ppt	La	≤ 1 ppt	Ru	≤ 10 ppt	V	≤ 10 ppt
Ce	≤ 1 ppt	Pb	≤ 10 ppt	Sm	≤ 1 ppt	Yb	≤ 1 ppt
Cs	≤ 1 ppt	Li	≤ 10 ppt	Sc	≤ 10 ppt	Y	≤ 1 ppt
Cr	≤ 10 ppt	Lu	≤ 1 ppt	Se	≤ 100 ppt	Zn	≤ 50 ppt
Co	≤ 10 ppt	Mg	≤ 20 ppt	Ag	≤ 10 ppt	Zr	≤ 10 ppt
Cu	≤ 10 ppt	Mn	≤ 50 ppt	Na	≤ 50 ppt	Assay	30 ÷ 32 % (p/p)
Dy	≤ 1 ppt	Hg	≤ 50 ppt	Sr	≤ 10 ppt		

Code	Size	Packaging	Notes
412051	500 ml	Plastic bottle	



## Hydrogen peroxide solution 30%

Perossido di idrogeno soluzione 30% • Eau oxygénée solution 30% • Hidrógeno peróxido solución 30%

H<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 34,01  
CAS: 7722-84-1

**Classification transport**  
ONU: 2014  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H318-H302  
P280-P270-P305+P351+P338-P301+P312

### Hydrogen peroxide solution 30% > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527621	1 l	Bottle	
527620	2.5 l	Bottle	

For specifications, contact our customer service for a certificate of analysis

### Hydrogen peroxide solution 30% > RS - RSE - For electronic use - Stabilized

RS

Description	Clear liquid	Chloride	≤ 0.5 ppm	Ca	≤ 0.05 ppm	Mn	≤ 0.01 ppm
Colour (APHA)	≤ 10	Phosphate	≤ 1 ppm	Cd	≤ 0.01 ppm	Na	≤ 0.05 ppm
Identification	Positive	Heavy metals (Pb)	≤ 1 ppm	Co	≤ 0.01 ppm	Ni	≤ 0.01 ppm
Density at 20° C	1.120 ÷ 1.124	Nitrate	≤ 2 ppm	Cr	≤ 0.01 ppm	Pb	≤ 0.01 ppm
Assay (oxidimetric)	29 ÷ 31 % m/m	Sulphate	≤ 1 ppm	Cu	≤ 0.01 ppm	Zn	≤ 0.02 ppm
Residue on evaporation	≤ 5 ppm	Al	≤ 0.1 ppm	Fe	≤ 0.03 ppm		
Acidity (H2SO4)	≤ 20 ppm	As	≤ 0.01 ppm	K	≤ 0.02 ppm		
Ammonium	≤ 1 ppm	Ba	≤ 0.01 ppm	Mg	≤ 0.02 ppm		

Code	Size	Packaging	Notes
412161	1 l	Plastic bottle	
412162	5 l	Plastic bottle	
412163	25 kg	Drum	

## Hydrogen peroxide solution 30% > RS - MOS For electronic use - Stabilized

**RS**

Description	Clear liquid	Sulphate	≤2 ppm	Cr	≤0.01 ppm	Pb	≤0.02 ppm
Colour (APHA)	≤10	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Pt	≤0.05 ppm
Identification	Positive	Al	≤0.1 ppm	Fe	≤0.1 ppm	Sb	≤0.01 ppm
Density at 18° C	1.120 ÷ 1.124	As	≤0.01 ppm	Ga	≤0.02 ppm	Sn	≤0.25 ppm
Assay (oxidimetric)	29.0 ÷ 31.0 %	Au	≤0.05 ppm	In	≤0.02 ppm	Sr	≤0.02 ppm
Residue on evaporation	≤10 ppm	B	≤0.02 ppm	K	≤0.1 ppm	Ta	≤0.1 ppm
Acidity (H <sub>2</sub> SO <sub>4</sub> )	≤20 ppm	Ba	≤0.1 ppm	Li	≤0.01 ppm	Ti	≤0.05 ppm
Ammonium	≤1 ppm	Be	≤0.02 ppm	Mg	≤0.05 ppm	Tl	≤0.05 ppm
Chloride	≤0.5 ppm	Bi	≤0.02 ppm	Mn	≤0.01 ppm	V	≤0.05 ppm
Phosphate	≤1 ppm	Ca	≤0.2 ppm	Mo	≤0.05 ppm	Zn	≤0.05 ppm
Heavy metals (Pb)	≤0.2 ppm	Cd	≤0.01 ppm	Na	≤0.2 ppm	Zr	≤0.05 ppm
Nitrate	≤2 ppm	Co	≤0.01 ppm	Ni	≤0.01 ppm		

Code	Size	Packaging	Notes
412081	1 l	Plastic bottle	

## Hydrogen peroxide solution 30% > RS - For agroalimentary analysis

**RS**

Aspect ..... Conform      Assay ..... 29.0 ÷ 31.0 %

Code	Size	Packaging	Notes
502044	5 l	Plastic drum	

## Hydrogen peroxide solution 30% > RS - For microanalysis - Stabilized

**RS**

Description ..... Clear colourless liquid      Identification ..... Positive      Density at 18° C ..... 1.120 ÷ 1.124

Code	Size	Packaging	Notes
412102	250 ml	Plastic bottle	

## Hydrogen peroxide solution 30% > RPE - For analysis - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized

**RPE**

Description	Clear liquid	Nitrate	≤2 ppm	Ca	≤0.2 ppm	Mn	≤0.01 ppm
Colour (APHA)	≤10	Sulphate	≤2 ppm	Cd	≤0.01 ppm	Na	≤0.5 ppm
Identification	Positive	Phosphate	≤2 ppm	Co	≤0.01 ppm	Ni	≤0.02 ppm
Density at 20° C	1.10 ÷ 1.13	Ammonium	≤5 ppm	Cr	≤0.02 ppm	Pb	≤0.02 ppm
Organic stabilizers	≤500 ppm	Heavy metals (Pb)	≤1 ppm	Cu	≤0.01 ppm	Zn	≤0.1 ppm
Residue on evaporation	≤20 ppm	Al	≤0.5 ppm	Fe	≤0.1 ppm	Assay (oxidimetric)	29.0 ÷ 31.0 % m/m
Acidity	≤0.0006 meq/g	As	≤0.01 ppm	K	≤0.1 ppm		
Chloride	≤0.5 ppm	Ba	≤0.05 ppm	Mg	≤0.1 ppm		

Code	Size	Packaging	Notes
412077	175 ml	Glass bottle	
412071	250 ml	Plastic bottle	
412072	1 l	Plastic bottle	
412074	25 kg	Plastic drum	
412076	200 kg	Plastic drum	

## Hydrogen peroxide solution 30% > ERBApharm - According to pharmacopoeia : Ph.Eur. - Stabilized

**ERBApharm**

 Description ..... Clear colourless liquid      Acidity ..... Conform Ph.Eur.      Organic stabilizers ..... ≤ 500 ppm      Origin (BSE/TSE) ..... Synthesis  
 Identification ..... Positive      Non volat.substances ..... ≤ 2 g/l      Assay (oxidimetric) ..... 29.0 ÷ 31.0 %      Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
307685	25 kg	Drum	



## Hydrogen peroxide solution 3.5% w/v

Perossido di idrogeno soluzione 3.5% m/v • Eau oxygénée solution 3.5% m/v • Hidrógeno peróxido solución 3.5% m/v

H<sub>2</sub>O<sub>2</sub>      HEU210  
 Molecular Weight: 34,01  
 CAS: 7722-84-1

## Hydrogen peroxide solution 3.5% w/v > RE - Pure

**RE**

 Description ..... Clear colourless liquid      Residue on evaporation ..... ≤0.2 %      Heavy metals (Pb) ..... ≤5 ppm  
 Identification ..... Positive      Acidity (HCl) ..... ≤360 ppm      As ..... ≤1 ppm  
 Density at 20° C ..... ~ 1.015      Fixative ..... ≤500 ppm      Assay (oxidimetric) ..... 3.45 ÷ 3.75 % m/v

Code	Size	Packaging	Notes
E307661	1 l	Bottle	



## Hydrogen peroxide solution 3%

Perossido di idrogeno soluzione 3% • Eau oxygénée solution 3% • Hidrógeno peróxido solución 3%



HEU210

Molecular Weight: 34,01

CAS: 7722-84-1

### Hydrogen peroxide solution 3% > ERBApharm - According to pharmacopoeia : Ph.Eur.-FU - Stabilized

ERBApharm

Description ..... Clear colourless liquid    Assay (oxidimetric) ..... 2.5 ÷ 3.5 %    Non volat.substances ..... Conform Ph.Eur.    Origin (BSE/TSE)..... Synthesis  
 Identification ..... Positive    Acidity ..... Conform Ph.Eur.    Organic stabilizers ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
307671	1 l	Plastic bottle	
307678	50 kg	Plastic tank	



## Hydroquinone

Idrochinone • Hydroquinone • Hidroquinona

Synonym:

1,4-Benzenediol

1,4-Dihydroxybenzene



Molecular Weight: 110,11

CAS: 123-31-9

EEC-N: 204-617-8

### Classification transport

ONU: 2811

Transport Hazard class: 6.1

Packing group III



### Danger

H302-H318-H317-H341-H351-H400

P264-P273-P261-P305+P351+P338-

P308+P313-P330

### Hydroquinone > RPE - For analysis

RPE

Description ..... White crystals    Alkalinity (NH<sub>4</sub>OH) ..... ≤17 ppm    Residue on ignition ..... ≤200 ppm    Assay (oxidimetric) ..... ≥99 %  
 Identification ..... Positive    Water-insoluble matter ..... ≤50 ppm    Resorcinol ..... ≤0.2 %  
 Melting point ..... 171 ÷ 174 ° C    Heavy metals (Pb) ..... ≤5 ppm    Total sulphur ..... ≤50 ppm  
 Loss on drying ..... ≤1 %    Catechol ..... ≤200 ppm    Fe ..... ≤5 ppm

Code	Size	Packaging	Notes
455325	250 g	Plastic bottle	

### Hydroquinone > RE - Pure

RE

Description ..... White crystals    Melting point ..... 170 ÷ 175 ° C    Resorcinol ..... ≤ 0.1 %    Assay (oxidimetric) ..... ≥ 99 %  
 Identification (I.R.) ..... Conform    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
348126	500 g	Plastic bottle	
348128	1 kg	Plastic bottle	
348129	5 kg	Plastic jar	
348124	25 kg	Plastic bucket	

## Hydroxybenzene ► Phenol

## 2-Hydroxybenzoic acid ► Salicylic acid



## Hydroxylamine solution, alcoholic

Idrossilamina soluzione, alcolico • Hydroxylamine solution alcoolique • Hidroxilamina solución, alcohólico

### Classification transport

ONU: 2733

Transport Hazard class: 3

Packing group II



### Danger

H225-H314-H318

P210-P241-P264-P301+P330+P331-

P303+P361+P353-P304+P340-P305+P351+P338-

P403+P235

### Hydroxylamine solution, alcoholic > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611044301	100 ml	Glass bottle	Ref Ph.Eur 1044301



## Hydroxylamine sulphate

Idrossilammina solfato • Hydroxylamine sulfate • Hidroxilamonio sulfato

Synonym:  
Hydroxylammonium sulfate

$(\text{NH}_2\text{OH})_2 \cdot \text{H}_2\text{SO}_4$   
Molecular Weight: 164,14  
CAS: 10039-54-0  
EEC-N: 233-118-8

**Classification transport**  
ONU: 2865  
Transport Hazard class: 8  
Packing group III



**Warning**  
H290-H302-H312-H315-H319-H317-H351-  
H373-H400  
P264-P273-P305+P351+P338-P308+P313-  
P314-P330

### Hydroxylamine sulphate > RPE - For analysis

**RPE**

Description ..... White crystals    Chloride ..... ≤10 ppm    Residue on ignition ..... ≤200 ppm    Assay (oxidimetric) ..... ≥99 %  
Identification ..... Positive    Water-insoluble matter ..... ≤50 ppm    As ..... ≤5 ppm  
Ammonium ..... ≤0.1 %    Heavy metals (Pb) ..... ≤10 ppm    Fe ..... ≤5 ppm

Code	Size	Packaging	Notes
455525	250 g	Plastic bottle	
455527	1 kg	Plastic bottle	
455523	25 kg	Plastic bucket	

4-Hydroxy-4-methyl-2-pentanone ▶ Diacetone alcohol

1-Hydroxynaphthalene ▶ 1-Naphthol

2-Hydroxynaphthalene ▶ 2-Naphthol



## 8-Hydroxyquinoline

8-Ossichinolina • 8-Hydroxyquinoléine • 8-Oxiquinoleína

$\text{HO}C_6\text{H}_3\text{N}:\text{CHCH}:\text{CH}$   
Molecular Weight: 145,16  
CAS: 148-24-3  
EEC-N: 205-711-1

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group II



**Warning**  
H302-H312-H332-H315-H319-H341-H335  
P264-P271-P304+P340-P305+P351+P338-  
P308+P313-P330

### 8-Hydroxyquinoline > RPE - For analysis

**RPE**

Description ..... Whitish powder    Suitab. for Mg determ. .... Conform    Alcohol-insolub. matter ..... ≤500 ppm    Sulphate ..... ≤200 ppm  
Identification ..... Positive    Melting point .....  $72,5 \div 74,0$  °C    Residue on ignition ..... ≤500 ppm

Code	Size	Packaging	Notes
467353	50 g	Glass bottle	
467355	250 g	Plastic bottle	

3-Hydroxytoluene ▶ m-Cresol



## Hypophosphorous acid 50%

Acido ipofosforoso 50% • Acide hypophosphoreux 50% • Acido hipofosforoso 50%

$\text{H}_3\text{PO}_2$   
Molecular Weight: 66,04  
CAS: 6303-21-5  
EEC-N: 228-601-5

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Hypophosphorous acid 50% > RPE - For analysis

**RPE**

Description ..... Yellow colourless liquid    Fe ..... ≤50 ppm    Sulphate (SO4-) ..... ≤500 mg/Kg  
Arsenic (As) ..... ≤0.05 mg/Kg    Lead (Pb) ..... ≤0.5 mg/Kg    Assay (acidimetric) ..... >49.5 %  
Ca ..... ≤30 ppm    Chloride (Cl-) ..... ≤200 mg/Kg    Density at 20° C ..... ~ 1.22

Code	Size	Packaging	Notes
406961	100 ml	Glass bottle	
406962	1 l	Glass bottle	
406964	30 kg	Plastic drum	



**Idrimer Erba Solution A**

Idrimer Erba Soluzione A • Idrimer Erba Solution A • Idrimer Erba Solución A

**Idrimer Erba Solution A > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E455256	500 ml	Bottle	
E455257	1 l	Bottle	

**For water hardness. Titrant 1 ml = 1 mg CaCO<sub>3</sub>****Idrimer Erba Solution B**

Idrimer Erba Soluzione B • Idrimer Erba Solution B • Idrimer Erba Solución B

**Warning**H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a**Idrimer Erba Solution B > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive pH at 20° C ..... 9.8 ÷ 10.2

Code	Size	Packaging	Notes
E455266	500 ml	Bottle	
E455267	1 l	Bottle	

**For water hardness. Buffer pH 10****Idrimer Erba Indicator C**

Idrimer Erba Indicatore C • Idrimer Erba Indicateur C • Idrimer Erba Indicador C

**Idrimer Erba Indicator C > RPE - For analysis****RPE**

Description ..... Violet granular powder Identification ..... Positive

Code	Size	Packaging	Notes
E455271	10 g	Bottle	
E455274	100 g	Bottle	

**For water hardness. Indicator****Imidazole**

Imidazolo • Imidazole • Imidazol

Synonym:  
1,3-Diaza-2,4-cyclopentadiene  
GlyoxalineC<sub>3</sub>H<sub>4</sub>N<sub>2</sub>  
Molecular Weight: 68,08  
CAS: 288-32-4  
EEC-N: 206-019-2**Classification transport**  
ONU: 2923  
Transport Hazard class: 8  
Packing group II**Danger**H302-H314-H360D-HA26  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Imidazole > RS - For microanalysis****RS**Description ..... White crystals C..... ≥52.93 % N..... ≥41.15 %  
Identification ..... Positive H..... ≥5.92 %

Code	Size	Packaging	Notes
445551	2 g	Glass bottle	
445552	25 g	Glass bottle	



## Immersion oil

Olio d'immersione • Huile pour immersion • Aceite de inmersión

**Classification transport**  
 ONU: 3082  
 Transport Hazard class: 9  
 Packing group III



**Warning**  
 H302-H411  
 P264-P273-P270-P330-P301+P312a-P391

### Immersion oil > RS - For microscopy

RS

Description ..... Clear liquid Identification ..... Positive Density at 20° C ..... ≥1.0

Code	Size	Packaging	Notes
466782	100 ml	Glass bottle	
466783	1 l	Glass bottle	

**contains benzylbenzoate**



## Indicator for ammoniacal nitrogen solution

Indicatore per azoto ammoniacale soluzione • Indicateur pour l'azote ammoniacal • Indicador para nitrógeno amoniacal solución

**Classification transport**  
 ONU: 1170  
 Transport Hazard class: 3  
 Packing group III



**Warning**  
 H226-H319  
 P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

### Indicator for ammoniacal nitrogen solution > RPE - For analysis

RPE

Description ..... Dark green liquid Identification ..... Positive pH range ..... 4.4 - 6.0

Code	Size	Packaging	Notes
E455651	250 ml	Glass bottle	

**Acid-base indicator (pH 4.4÷6.0)**



## Indicator for iodometry

Indicatore per iodometria • Indicateur pour iodométrie • Indicador para iodometría

EEC-N: 232-679-6

### Indicator for iodometry > RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive

Code	Size	Packaging	Notes
455622	25 g	Glass bottle	
455621	250 g	Plastic bottle	



## Indicator papers

Cartine indicatrici di pH • Papier indicateur de pH • Papel indicador de pH

### Indicator papers > RS - For pHmetry

RS

Code	Size	Packaging	Notes
435421000	1 roll	Box	Monochromatic scale. pH range 0.5 - 5.5. Sensitivity 0.5 pH
435431000	1 roll	Box	Monochromatic scale. pH range 4.0 - 7.0. Sensitivity 0.3 pH
435441000	1 roll	Box	Monochromatic scale. pH range 6.4 - 8.0. Sensitivity 0.2 pH
435451000	1 roll	Box	Monochromatic scale. pH range 7.2 - 9.7. Sensitivity 0.3 pH
435461000	1 roll	Box	Monochromatic scale. pH range 8.0 - 10.0. Sensitivity 0.2/0.3 pH
435471000	1 roll	Box	Monochromatic scale. pH range 9.0 - 13.0. Sensitivity 0.5 pH
435511000	1 roll	Box	Monochromatic scale. pH range 5.5 - 9.0. Sensitivity 0.5 pH
435131000	1 roll	Dispenser	Trichromic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH
435140000	1 roll	Dispenser	Monochromatic scale, pH range 1.0 - 11.0, Sensitivity 1,0 pH
435150000	1 roll	Dispenser	Monochromatic scale, pH range 1.0 - 14.0, Sensitivity 1,0/2,0 pH
435161000	1 roll	Dispenser	Monochromatic scale, pH range 3.8 - 5.8, Sensitivity 0.2/0.3 pH
435171000	1 roll	Dispenser	Monochromatic scale, pH range 5.4 - 7.0, Sensitivity 0.2/0.3 pH

## Indicator papers &gt; RS - High sensitivity-Integrated chromatic scale

RS

Code	Size	Packaging	Notes
435493000	100 stripes	Tube	pH range 1.0 - 2.8. Sensitivity 0.2/0.3
435494000	100 stripes	Tube	pH range 1.8 - 3.8. Sensitivity 0.2/0.3
435495000	100 stripes	Tube	pH range 2.8 - 4.6. Sensitivity 0.2/0.3
435496000	100 stripes	Tube	pH range 3.8 - 5.5. Sensitivity 0.2/0.3
435497000	100 stripes	Tube	pH range 5.2 - 6.8. Sensitivity 0.2/0.3
435498000	100 stripes	Tube	pH range 6.0 - 8.1. Sensitivity 0.2/0.3
435501000	100 stripes	Tube	pH range 7.2 - 8.8. Sensitivity 0.2/0.3
435502000	100 stripes	Tube	pH range 8.0 - 9.7. Sensitivity 0.2/0.3
435491000	200 stripes	Tube	pH range 1.0 - 12.0. Sensitivity 1.0

Strip 11 x 100 mm

## Indicator papers &gt; RS - Indelibles-with colour scale

RS

Code	Size	Packaging	Notes
435121000	100 stripes	Tube	pH range 0.0 - 14.0, Sensitivity 1.0
435642000	100 stripes	Tube	pH range 0.0 - 6.0. Sensitivity 0.5
435643000	100 stripes	Tube	pH range 2.0 - 9.0. Sensitivity 0.5
435644000	100 stripes	Tube	pH range 4.5 - 10.0. Sensitivity 0.5
435645000	100 stripes	Tube	pH range 7.0 - 14.0. Sensitivity 0.3/0.4
435646000	100 stripes	Tube	pH range 0.3 - 2.3. Sensitivity 0.3

Strip 6 x 85 mm



## Indicator universal pH 0-5 hydroalcoholic solution

Indicatore universale pH 0-5 soluzione idroalcolica • Indicateur universel pH 0-5 solution hydroalcoolique • Indicador universal pH 0-5 solución hidroalcohólica

**Classification transport**  
 ONU: 1170  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H319  
 P210-P241-P264-P303+P361+P353-  
 P305+P351+P338-P403+P235

## Indicator universal pH 0-5 hydroalcoholic solution &gt; RPE - For analysis

RPE

Description .....Dark green liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455661	25 ml	Glass bottle	
E455662	500 ml	Glass bottle	

With chromatic scale



## Indicator universal pH 1-11 hydroalcoholic solution

Indicatore universale pH 1-11 soluzione idroalcolica • Indicateur universel pH 1-11 solution hydroalcoolique • Indicador universal pH 1-11 solución hidroalcohólica



**Warning**  
 H319  
 P264-P280-P305+P351+P338-P337+P313

## Indicator universal pH 1-11 hydroalcoholic solution &gt; RPE - For analysis

RPE

Description .....Dark green liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455702	25 ml	Glass bottle	
E455706	500 ml	Plastic bottle	

With chromatic scale



## Indicator universal pH 1-11 water solution

Indicatore universale pH 1-11 soluzione in acqua • Indicateur universel pH 1-11 solution aqueuse • Indicador universal pH 1-11 solución en agua

### Indicator universal pH 1-11 water solution > RPE - For analysis

RPE

Description ..... Dark green liquid Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455711	25 ml	Glass bottle	
E455712	500 ml	Glass bottle	

With chromatic scale



## Indicator universal pH 9-13 hydroalcoholic solution

Indicatore universale pH 9-13 soluzione idroalcolica • Indicateur universel pH 9-13 solution hydroalcoolique • Indicador universal pH 9-13 solución en agua

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Indicator universal pH 9-13 hydroalcoholic solution > RPE - For analysis

RPE

Description ..... Liquido giallo Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
E455641	25 ml	Glass bottle	
E455642	500 ml	Glass bottle	

With chromatic scale



## Indigo carmine dried

Carminio indaco secco • Carmin d'indigo sec • Indigo Carmin seco

Synonym:  
Acid Blue 74

$C_{16}H_8N_2Na_2O_8S_2$   
Molecular Weight: 466,36  
CAS: 860-22-0  
EEC-N: 212-728-8

### Indigo carmine dried > RPE - For analysis - C.I. 73015

RPE

Description ..... Polvere blu viola Identification ..... Positive Colour change.....( blue - yellow) Assay ..... ≥ 85 %

Code	Size	Packaging	Notes
434932	25 g	Glass bottle	

Dye for microscopy (bacteriology histology). Indicator acid - base (pH 11.6 ÷ 14)



## Indigo carmine solution

Carminio indaco soluzione • Carmin d'indigo solution • Indigo carmin solución

Synonym:  
Acid Blue 74

$C_{16}H_8N_2Na_2O_8S_2$   
Molecular Weight: 466,36  
CAS: 860-22-0

### Classification transport

ONU: 3264

### Indigo carmine solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611045601	1 l	Plastic bottle	Ref Ph.Eur 1045601

**Indium standard solution**

Indio standard soluzione • Indium solution standard • Indio, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Indium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505662	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505665	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505663	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Indium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503651	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503655	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503653	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503657	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Indium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507743	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507508	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Indole**

Indolo • Indole • Indol

Synonym:  
1H-Benzo[b]pyrroleC<sub>8</sub>H<sub>7</sub>NHCH:CH  
Molecular Weight: 117,15  
CAS: 120-72-9  
EEC-N: 204-420-7**Classification transport**ONU: 2811  
Packing group III**Danger**H302-H311  
P264-P280h-P270-P330-P301+P312a-P302+P352a**Indole > RPE - For analysis**

RPE

Description .....	White powder or flakes	Total chlorine .....	≤20 ppm	Total sulphur .....	≤40 ppm
Identification .....	Positive	Heavy metals (Pb).....	≤10 ppm	Fe .....	≤10 ppm
Melting point.....	51.5 ÷ 53.5 ° C	Residue on ignition.....	≤0.1 %	Assay (spectrophotom.) .....	≥99 %

Code	Size	Packaging	Notes
455801	10 g	Glass bottle	
455802	100 g	Glass bottle	



## Inositol

Inositolo • Inositol • Inositol

Synonym:

1,2,3,4,5,6-Hexahydroxycyclohexane

CHOH(CHOH)<sub>4</sub>CHOH  
Molecular Weight: 180,16  
CAS: 87-89-8  
EEC-N: 201-781-2

### Inositol > RPE - For analysis

RPE

Description .....	White crystalline powder	pH sol. 5% at 25° C .....	5.0 ÷ 7.0	Residue on ignition .....	≤0.1 %	Fe .....	≤5 ppm
Identification .....	Positive	Loss on drying .....	≤0.2 %	Sulphate .....	≤50 ppm	Assay (gravimetric) .....	≥99 %
Albumin .....	Conform	Chloride .....	≤50 ppm	Red.ing sugars(Glucose) .....	≤0.1 %		
Dextrine .....	Conform	Phosphate .....	≤10 ppm	Ba .....	≤150 ppm		
Melting point .....	221.6 ÷ 226.4 ° C	Heavy metals (Pb) .....	≤25 ppm	Ca .....	≤50 ppm		

Code	Size	Packaging	Notes
455853	50 g	Glass bottle	

### Inositol > RE - Pure

RE

Description .....	White powder	Loss on drying .....	≤0.2 %	Chloride .....	≤100 ppm	Sulphate .....	≤150 ppm
Identification .....	Positive	Sulphated ash .....	≤0.1 %	Heavy metals (Pb) .....	≤40 ppm	Fe .....	≤10 ppm

Code	Size	Packaging	Notes
348354	100 g	Plastic bottle	



## Inulin

Inulina • Inuline • Inulina

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
CAS: 9005-80-5  
EEC-N: 232-684-3

### Inulin > RPE - For analysis

RPE

Description .....	White crystalline powder	(c= 2 in water)		Chloride .....	≤50 ppm	Fe .....	≤10 ppm
Identification .....	Positive	Loss on drying .....	≤10 %	Sulphate .....	≤50 ppm		
Specific optical rotation on dry	-32 ÷ -40 °	Residue on ignition .....	≤0.1 %	Heavy metals (Pb) .....	≤10 ppm		

Code	Size	Packaging	Notes
455901	10 g	Glass bottle	
455902	25 g	Glass bottle	
455903	100 g	Glass bottle	

## Iodic anhydride ► Iodopentoxide



## Iodide standard solution

Ioduri standard soluzione • Iodure solution standard • Yoduro, solución patrón

### Iodide standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503261	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503263	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Iodine resublimed

Iodio bisublimato • Iode bisublimé • Yodo bisublimado

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2  
EEC-N: 231-442-4

**Classification transport**  
ONU: 3495  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H312-H332-H315-H319-H335-H372-H400  
P264-P273-P271-P304+P340-  
P305+P351+P338-P314

### Iodine resublimed > RPE - For analysis

RPE

Description ..... Grey-violet crystals    Residue on evaporation ..... ≤100 ppm    Assay (oxidimetric) ..... ≥99.8 %  
Identification ..... Positive    Chlorine-Bromine ..... ≤100 ppm

Code	Size	Packaging	Notes
455959	100 g	Glass bottle	
455955	250 g	Glass bottle	
455957	1 kg	Glass bottle	
455954	25 kg	Metal drum	



## Iodine

Iodio • Iode • Yodo

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2  
EEC-N: 231-442-4

**Classification transport**  
ONU: 3495  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H312-H332-H315-H319-H335-H372-H400  
P264-P273-P271-P304+P340-  
P305+P351+P338-P314

### Iodine > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... Grey-violet crystals    Chloride + bromide (Cl) ..... ≤ 0.025 %    Assay (iodometric) ..... 99.8 ÷ 100.5 %  
Identification ..... Positive    Residue on ignition ..... ≤ 0.05 %

Code	Size	Packaging	Notes
348454	100 g	Glass bottle	
348455	250 g	Glass bottle	
348457	1 kg	Glass bottle	
348451	5 kg	Metal bucket	
348452	20 kg	Metal drum	



## Iodine 0.5 mol/l (1N)

Iodio 0.5 mol/l (1N) • Iode 0.5 mol/l (1N) • Yodo 0.5 mol/l (1N)

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group III



**Danger**  
H315-H319-H372  
P264-P280-P305+P351+P338-P314-P332+P313-  
P337+P313

### Iodine 0.5 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613009400	1 l	Glass bottle	Ref Ph.Eur 3009400

**Storage: protected from light**

### Iodine 0.5 mol/l (1N) > RPE - For analysis

RPE


Description ..... Brown red liquid    Assay (potentiometry) ..... 0.99 - 1.01 N    NIST 136 ..... e

Code	Size	Packaging	Notes
456135000	500 ml	Glass bottle	
456137000	1 l	Glass bottle	

**126.9 g of I<sub>2</sub>. Volumetric solution ready-to-use : 1N. Traceable to NIST**

## Iodine 0.05 mol/l (0.1N) Iodio 0.05 mol/l (0.1N) • Iode 0.05 mol/l (0.1N) • Yodo 0.05 mol/l (0.1N)

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2

 **Warning**  
H373  
P260-P314-P501a

**Iodine 0.05 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

**RS**

Code	Size	Packaging	Notes
613002700	1 l	Glass bottle	Ref Ph.Eur 3002700

**Storage: protected from light**

**Iodine 0.05 mol/l (0.1N) > RPE - For analysis**

**RPE**

Description .....Brown red liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 136.....e

Code	Size	Packaging	Notes
456036000	500 ml	Glass bottle	
456037000	1 l	Glass bottle	

**12.69 g of I<sub>2</sub>. Volumetric solution ready-to-use : 0.1N**

**Iodine 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis**

**RPE**

Description .....Brown red liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005


Code	Size	Packaging	Notes
456051		Glass ampoule	Volume : 60 ml

**12,69 g of I<sub>2</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**

## Iodine 0.01 mol/l (0.02N) Iodio 0.01 mol/l (0.02N) • Iode 0.01 mol/l (0.02N) • Yodo 0.01 mol/l (0.02N)

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group III

 **Danger**  
H315-H319-H372  
P264-P280-P305+P351+P338-P314-P332+P313-  
P337+P313

**Iodine 0.01 mol/l (0.02N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2**


**RS**

Code	Size	Packaging	Notes
613002900	1 l	Glass bottle	Ref Ph.Eur 3002900

**Storage: protected from light**

## Iodine 0.005 mol/l (0.01N) Iodio 0.005 mol/l (0.01N) • Iode 0.005 mol/l (0.01N) • Yodo 0.005 mol/l (0.01N)

I<sub>2</sub>  
Molecular Weight: 253,8  
CAS: 7553-56-2

 **Warning**  
H373  
P260-P314-P501a

**Iodine 0.005 mol/l (0.01N) > RPE - NORMEX - For analysis**

**RPE**

Description .....Brown clear liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
456121		Glass ampoule	Volume : 60 ml

**1,269 g of I<sub>2</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**

## Iodine 10 ppm Iodio 10 ppm • Iode 10 ppm • Yodo 10 ppm

**Iodine 10 ppm > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

**RS**

Code	Size	Packaging	Notes
615003809	100 ml	Glass bottle	Concentrated solution : to dilute according to Ref Ph.Eur 5003800



**Iodine bromide solution**

Iodo bromuro soluzione • Iode bromure solution • Yodo bromuro solución

**Classification transport**ONU: 2734  
Transport Hazard class: 8  
Packing group II**Danger**H226-H314  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235**Iodine bromide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611045901	1 l	Glass bottle	Ref Ph.Eur 1045901

**Storage: protected from light****Iodopentoxide**

Anidride iodica • Anhydride iodique • Anhídrido iódico

Synonym:  
Iodic anhydrideI<sub>2</sub>O<sub>5</sub>Molecular Weight: 333,81  
CAS: 12029-98-0  
EEC-N: 234-740-2**Classification transport**ONU: 1479  
Transport Hazard class: 5.1  
Packing group III**Danger**H272  
P221-P210a-P280a-P220-P370+P378a-P501a**Iodopentoxide > RPE - For analysis****RPE**

Description .....Pale cream powder    Identification .....Positive    Melting point..... ≥ 350 °C    Assay (oxidimetric) ..... ≥ 97.9 %

Code	Size	Packaging	Notes
421904	100 g	Glass bottle	

**Iodoform**

Iodoformio • Iodoforme • Yodoformo

Synonym:  
TriiodomethaneCHI<sub>3</sub>Molecular Weight: 393,73  
CAS: 75-47-8  
EEC-N: 200-874-5**Warning**H302-H312-H332  
P264-P271-P261-P280h-P304+P340-P330**Iodoform > RE - Pure****RE**Description .....Yellow crystalline powder    Loss on drying ..... ≤ 1.0 %    Assay (argentimetric) ..... ≥ 99.0 %    Acidity or alkalinity..... Conform  
Identification .....Positive    Sulphated ash..... ≤ 0.2 %    Appearance of solution ..... Conform    Chloride..... ≤ 50 ppm

Code	Size	Packaging	Notes
348554	100 g	Glass bottle	
348557	1 kg	Glass bottle	
348558	25 kg	Drum	

**Iodomethane ► Methyl iodide****Iodoplatinate reagent**

Reattivo iodoplatinato • Réactif à l'iodoplatinate • Yodoplatinato reactivo

**Iodoplatinate reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611046309	200 ml	Glass bottle	Ref Ph.Eur 1046300
611046300	1 l	Glass bottle	Ref Ph.Eur 1046300

**Storage: protected from light**

**Iridium standard solution**

Iridio standard soluzione • Iridium solution standard • Iridio, solución patrón

**Classification transport**ONU: 1760  
Transport Hazard class: 8  
Packing group III**Warning**H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a**Iridium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505672	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505675	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Iron standard solution**

Ferro standard soluzione • Fer solution standard • Hierro, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Danger**H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Iron standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615001601	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001601
615001602	100 ml	Plastic bottle	A 8 ppm solution : to dilute according to Ref Ph.Eur 5001602
615001603	100 ml	Plastic bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001603
615001605	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001605
615001606	100 ml	Plastic bottle	A 250 ppm solution : to dilute according to Ref Ph.Eur 5001606
615001609	100 ml	Plastic bottle	A 20 ppm solution : to dilute according to Ref Ph.Eur 5001600

**Iron standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505612	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505615	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505613	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Iron standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503581	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503585	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503583	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503587	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Iron standard solution > RS - Standard solution for AAS**

RS

Description ..... Yellow clear liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497515	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504194	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507393	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497511	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Iron standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Yellow clear liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
451311		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Iron, powder**

Ferro, polvere • Fer, poudre • Hierro, polvo

Fe  
Molecular Weight: 55,85  
CAS: 7439-89-6  
EEC-N: 231-096-4

**Classification transport**  
ONU: 3089  
Transport Hazard class: 4.1  
Packing group III



**Warning**  
H228  
P210-P241-P280-P240-P370+P378a

**Iron, powder > RPE - For analysis**

RPE

Description ..... Grey powder Identification ..... Positive Assay ..... ≥97 %

Code	Size	Packaging	Notes
451377	1 kg	Plastic bottle	
451373	25 kg	Plastic bucket	

**Iron, reduced by hydrogen**

Ferro, ridotto dall'idrogeno • Fer, réduit par l'hydrogène • Hierro, reducido para el hidrógeno

Fe  
Molecular Weight: 55,85  
CAS: 7439-89-6  
EEC-N: 231-096-4

**Classification transport**  
ONU: 3089  
Transport Hazard class: 4.1  
Packing group III



**Warning**  
H228  
P210-P241-P280-P240-P370+P378a

**Iron, reduced by hydrogen > RPE - For analysis**

RPE

Description ..... Grey powder Ferric ion ..... Conform H<sub>2</sub>SO<sub>4</sub>-insoluble matter ..... ≤0.5 % Assay ..... ≥95 %  
Identification ..... Positive Nitrogen compounds (N) ..... ≤50 ppn Water solubility ..... ≤0.1 %

Code	Size	Packaging	Notes
451395	250 g	Glass bottle	
451397	1 kg	Plastic bottle	



## Iron (III) ammonium citrate green

Ferro ammonio citrato verde • Fer ammonium citrate vert • Hierro y amonio citrato verde

Synonym:  
Ammonium iron(III) citrate  
Ammonium ferric citrate

$\text{FeNH}_4(\text{C}_6\text{H}_5\text{O}_7)$   
Molecular Weight: 482,19  
CAS: 1185-57-5  
EEC-N: 214-686-6



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Iron (III) ammonium citrate green > RE - Pure

RE

Description ..... Green-yellowish crystalline powder Sulphate ..... ≤ 0.5 % Assay (oxidimetric) ..... 14.0 ÷ 16.0 % Fe  
Identification ..... Positive As ..... ≤ 4 ppm

Code	Size	Packaging	Notes
343605	250 g	Plastic bottle	
343607	1 kg	Plastic bottle	
343606	5 kg	Plastic jar	



## Iron (III) ammonium citrate red

Ferro ammonio citrato rosso • Fer ammonium citrate rouge • Hierro y amonio citrato rojo

Synonym:  
Ammonium iron(III) citrate  
Ammonium ferric citrate

$\text{FeNH}_4(\text{C}_6\text{H}_5\text{O}_7)$   
Molecular Weight: 482,19  
CAS: 1185-57-5  
EEC-N: 214-686-6



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

### Iron (III) ammonium citrate red > RE - Pure

RE

Description ..... Red-brown powder Sulphate ..... ≤ 0.6 % Assay (oxidimetric) ..... 20 ÷ 23 % Fe  
Identification ..... Positive As ..... ≤ 5 ppm

Code	Size	Packaging	Notes
343441	250 g	Plastic bottle	
343442	1 kg	Plastic bottle	
343443	5 kg	Plastic jar	



## Iron (III) ammonium sulfate dodecahydrate

Ferro ammonio solfato ico dodecaidrato • Fer (III) ammonium sulfate dodécahydraté • Hierro (III) amonio sulfato dodecahidrato

Synonym:  
Ammonium iron(III) sulfate dodecahydrate  
Ammonium ferric sulfate dodecahydrate

$\text{FeNH}_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$   
Molecular Weight: 482,19  
CAS: 7783-83-7  
EEC-N: 233-382-4



### Warning

H315-H319  
P264-P280g-P280i-P305+P351+P338-P332+P313-  
P337+P313

### Iron (III) ammonium sulfate dodecahydrate > RPE - For analysis

RPE

Description Purple semitransparent crystals Diluted HCl-ins. matter ..... ≤ 50 ppm Cr ..... ≤ 100 ppm Na ..... ≤ 150 ppm  
Identification ..... Positive Nitrate ..... ≤ 50 ppm Cu ..... ≤ 10 ppm Ni ..... ≤ 20 ppm  
pH sol. 5% at 25° C ..... 1.75 ÷ 2.75 Subst. not ppt NH4OH ..... ≤ 0.1 % K ..... ≤ 300 ppm Pb ..... ≤ 30 ppm  
Chloride ..... ≤ 3 ppm As ..... ≤ 2 ppm Mg ..... ≤ 50 ppm Zn ..... ≤ 20 ppm  
Phosphate ..... ≤ 20 ppm Ca ..... ≤ 10 ppm Mn ..... ≤ 100 ppm Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
451503	100 g	Plastic bottle	
451505	500 g	Plastic bottle	
451507	1 kg	Plastic bottle	
451502	25 kg	Plastic bucket	
451504	50 kg	Plastic bucket	

### Iron (III) ammonium sulfate dodecahydrate > RE - Pure

RE

Description Cristalli semitrasparenti violacei Assay (oxidimetric) ..... ≥ 98.0 % Subst. not ppt NH4OH ..... ≤ 0.1 % Zn ..... ≤ 50 ppm  
Identification ..... Positive Chloride ..... ≤ 0.05 % Cu ..... ≤ 20 ppm

Code	Size	Packaging	Notes
344107	1 kg	Plastic bottle	
344108	5 kg	Plastic jar	

**Iron (II) ammonium sulfate hexahydrate**

Ferro ammonio solfato osso esaidrato • Fer(II) ammonium sulfate hexahydraté • Hierro (II) amonio sulfato hexahidratado

Synonym:  
Ammonium iron(II) sulfate hexahydrate  
Mohr's saltFe(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 392,14  
CAS: 7783-85-9  
EEC-N: 233-151-8**Warning**H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313**Iron (II) ammonium sulfate hexahydrate > RPE - For analysis - ACS****RPE**Description ..... Green - azure crystals    Ferric salt ..... ≤ 100 ppm    Assay (oxidimetric) ..... 98.5 ÷ 101.5 %    Na ..... ≤ 0.02 %  
Identification ..... Positive    Cu ..... ≤ 30 ppm    Water-insoluble matter ..... ≤ 100 ppm  
Phosphate ..... ≤ 30 ppm    Mn ..... ≤ 100 ppm    Mg ..... ≤ 20 ppm  
Ca ..... ≤ 50 ppm    Zn ..... ≤ 30 ppm    K ..... ≤ 20 ppm

Code	Size	Packaging	Notes
451453	100 g	Plastic bottle	
451451	500 g	Plastic bottle	
451457	1 kg	Plastic bottle	
451452	25 kg	Plastic bucket	

**Iron (II) ammonium sulfate hexahydrate > RE - Pure****RE**

Description ..... Green - azure crystals    Identification ..... Positive    Ferric ion ..... ≤ 0.01 %    Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
344007	1 kg	Plastic bottle	
344008	5 kg	Plastic jar	
344003	25 kg	Plastic bucket	

**Iron (III) ammonium sulfate solution 33% in nitric acid**

Ferro ammonio solfato ico soluzione 33% in acido nitrico • Fer (III) ammonium sulfate 33% dans l'acide nitrique • Hierro (III) amonio sulfato solución 33% en acido nítrico

**Classification transport**ONU: 2031  
Transport Hazard class: 8  
Packing group II**Danger**H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Iron (III) ammonium sulfate solution 33% in nitric acid > RPE - For analysis****RPE**

Description ..... Yellow - brown liquid    Identification ..... Positive    Assay ..... 32 ÷ 34 %

Code	Size	Packaging	Notes
E451521	500 ml	Glass bottle	

**Iron (III) ammonium sulfate 0.1 mol/l**

Ferro ammonio solfato ico 0.1 mol/l • Fer (III) ammonium sulfate 0.1 mol/l • Hierro (III) amonio sulfato 0.1 mol/l

**Iron (III) ammonium sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613001300	1 l	Plastic bottle	Ref Ph.Eur 3001300



## Iron (III) ammonium sulfate solution 100 g/l

Ferro ammonio solfato ico soluzione 100 g/l • Fer (III) ammonium sulfate 100 g/l • Hierro (III) amonio sulfato solución 100 g/l



### Warning

H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

### Iron (III) ammonium sulfate solution 100 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611037703	100 ml	Plastic bottle	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702
611037702	1 l	Plastic bottle	Ferric ammonium sulfate solution R2 Ref Ph.Eur 1037702



## Iron (II) ammonium sulfate 0.12N

Ammonio ferrosolfato (II) 0.12N • Fer (II) ammonium sulfate 0.12N • Amonio Hierro II sulfato 0.12N

$(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 392,14  
CAS: 7783-85-9

HEU210

### Iron (II) ammonium sulfate 0.12N > RS - For environmental analysis (COD determination)

RS

Code	Size	Packaging	Notes
526761	1 l	Bottle	



## Iron (II) ammonium sulfate 0.1N

Ferro ammonio solfato oso 0.1N • Fer(II) ammonium sulfate 0.1N • Amonio hierro II sulfato 0.1 N

Synonym:  
Ammonium iron(II) sulfate hexahydrate  
Mohr's salt

$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 392,14  
CAS: 7783-85-9

### Classification transport

ONU: 2796  
Transport Hazard class: 8  
Packing group II



### Warning

H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

### Iron (II) ammonium sulfate 0.1N > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.099 - 0.101 N

Code	Size	Packaging	Notes
P3250016	1 l	Glass bottle	



## Iron (II) chloride tetrahydrate

Ferro cloruro oso tetraidrato • Fer (II) chlorure tétrahydraté • Hierro (II) cloruro tetrahidratado

Synonym:  
Ferrous chloride tetrahydrate

$\text{FeCl}_2 \cdot 4\text{H}_2\text{O}$   
Molecular Weight: 198,81  
CAS: 13478-10-9  
EEC-N: 231-843-4

### Classification transport

ONU: 3260  
Transport Hazard class: 8  
Packing group III



### Danger

H302-H315-H318  
P264-P280g-P280i-P305+P351+P338-P330-  
P332+P313

### Iron (II) chloride tetrahydrate > RPE - For analysis

RPE

Description ..... Yellow-green crystals  
Subst. not ppt NH4OH ..... ≤500 ppm  
Cr ..... ≤20 ppm  
Pb ..... ≤20 ppm  
Identification ..... Positive  
Ferric salt ..... ≤0.2 %  
Cu ..... ≤20 ppm  
Zn ..... ≤20 ppm  
Total nitrogen ..... ≤20 ppm  
Sulphate ..... ≤50 ppm  
Mn ..... ≤0.1 %  
Assay (oxidimetric) ..... ≥ 99 %  
Phosphate ..... ≤10 ppm  
As ..... ≤1 ppm  
Ni ..... ≤50 ppm

Code	Size	Packaging	Notes
451574	100 g	Plastic bottle	
451575	500 g	Plastic bottle	
451576	1 kg	Plastic bottle	
451573	25 kg	Drum	

**Iron (III) chloride anhydrous sublimed**

Ferro cloruro ico anidro sublimato • Fer (III) chlorure anhydre sublimé • Hierro (III) cloruro anhidro sublimado

Synonym:

*Ferric chloride*

Molecular Weight: 162,21

CAS: 7705-08-0

EEC-N: 231-729-4

**Classification transport**

ONU: 1773

Transport Hazard class: 8

Packing group III

**Danger**

H302-H315-H318

P264-P280-P305+P351+P338-P330-

P332+P313-P362

**Iron (III) chloride anhydrous sublimed > RPE - For analysis****RPE**

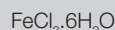
Description ..... Black powder    As ..... ≤ 20 ppm    Ni ..... ≤ 500 ppm    Assay (oxidimetric) ..... ≥ 98 %  
 Identification ..... Positive    Cu ..... ≤ 0.1 %    Pb ..... ≤ 200 ppm  
 Water-insoluble matter ..... ≤ 1 %    Mn ..... ≤ 0.3 %    Zn ..... ≤ 0.1 %

Code	Size	Packaging	Notes
451695	250 g	Glass bottle	
451696	1 kg	Glass bottle	
451692	25 kg	Drum	

**Iron (III) chloride hexahydrate**

Ferro cloruro ico esaidrato • Fer (III) chlorure hexahydraté • Hierro (III) cloruro hexahidratado

Synonym:

*Ferric chloride hexahydrate*

Molecular Weight: 270,3

CAS: 10025-77-1

EEC-N: 231-729-4

**Classification transport**

ONU: 3260

Transport Hazard class: 8

Packing group III

**Danger**

H314

P264-P280-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

**Iron (III) chloride hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Brown pieces    Ferrous salt ..... ≤ 20 ppm    Cu ..... ≤ 30 ppm    K ..... ≤ 50 ppm  
 Identification ..... Positive    Total phosphorus ..... ≤ 100 ppm    Zn ..... ≤ 30 ppm    Na ..... ≤ 0.05 %  
 Ca ..... ≤ 100 ppm    Nitrate ..... ≤ 100 ppm    Assay (oxidimetric) ..... 97.0 ÷ 102.0 %  
 Water-insoluble matter ..... ≤ 100 ppm    Sulphate ..... ≤ 100 ppm    Mg ..... ≤ 50 ppm

Code	Size	Packaging	Notes
451625	100 g	Plastic bottle	
451626	500 g	Plastic bottle	
451627	1 kg	Plastic bottle	

**Iron (III) chloride hexahydrate > RE - Pure****RE**

Description ..... Grani o blocco giallo scuro    Acidity (HCl) ..... ≤ 0.8 %    Fe (+2) ..... ≤ 0.9 %    Assay (oxidimetric) ..... 59 ÷ 61 %  
 Identification ..... Positive    Sulphate ..... ≤ 0.1 %    Heavy metals (Pb) ..... ≤ 0.05 %    Assay (FeCl<sub>3</sub>·6H<sub>2</sub>O) ..... ≥ 99 %

Code	Size	Packaging	Notes
344507	1 kg	Plastic bottle	
344508	2.5 kg	Plastic jar	
344509	5 kg	Plastic jar	
344504	25 kg	Plastic bucket	

**Iron (III) chloride solution 4.5%**

Ferro cloruro ico soluzione 4,5% • Fer (III) chlorure solution 4.5% • Hierro (III) cloruro solución 4.5%

**Classification transport**

ONU: 3264

Transport Hazard class: 8

Packing group III

**Danger**

H318

P280-P305+P351+P338-P310a

**Iron (III) chloride solution 4.5% > RPE - For analysis****RPE**

Description ..... Yellow clear liquid    Identification ..... Positive    Density at 20° C ..... 1.019 ÷ 1.025    Assay ..... 4.3 ÷ 4.7 % p/p

Code	Size	Packaging	Notes
E451653	1 l	Bottle	

	<b>Iron (III) citrate</b> Ferro citrato ico • Fer (III) citrate • Hierro (III) citrato	Synonym: Iron(III) citrate tribasic monohydrate Ferric citrate monohydrate
	$C_6H_8O_7 \cdot xFe$ Molecular Weight: 262,96 CAS: 2338-05-8 EEC-N: 219-045-4	

Iron (III) citrate > RE - Pure				RE
Description	Red-brown crystals	Identification	Positive	Assay (iodometric) 18 ÷ 20 % Fe
Code	Size	Packaging	Notes	
344201	1 kg	Plastic bottle		
344202	5 kg	Plastic jar		

	<b>Iron (III) nitrate nonahydrate</b> Ferro nitrato ico nonaidrato • Fer(III) nitrato nonahidraté • Hierro (III) nitrato 9-hidratado	Synonym: Ferric nitrate nonahydrate
	$Fe(NO_3)_3 \cdot 9H_2O$ Molecular Weight: 404,04 CAS: 7782-61-8 EEC-N: 233-899-5	<b>Classification transport</b> ONU: 1466 Transport Hazard class: 5.1 Packing group III

Iron (III) nitrate nonahydrate > RPE - For analysis - ACS				RPE			
Description	Purplish crystals deliquescent	Subst. not ppt NH4OH	≤0.1 %	Chloride	≤5 ppm	Assay (oxidimetric)	98.0 ÷ 101.0 %
Identification	Positive	Water-insoluble matter	≤50 ppm	Sulphate	≤100 ppm		
Code	Size	Packaging	Notes				
451723	100 g	Plastic bottle					
451725	500 g	Plastic bottle					
451727	1 kg	Plastic bottle					
451722	25 kg	Drum					

	<b>Iron (III) oxide</b> Ferro ossido ico • fer (III) oxyde • Hierro (III) óxido	Synonym: Ferric oxide
	$Fe_2O_3$ Molecular Weight: 159,7 CAS: 1309-37-1 EEC-N: 215-168-2	 <b>Warning</b> H315-H319-H335 P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

Iron (III) oxide > RPE - For analysis				RPE			
Description	Red brown powder	Chloride	≤100 ppm	Cr	≤10 ppm	Na	≤200 ppm
Identification	Positive	Sulphate	≤100 ppm	Cu	≤50 ppm	Ni	≤50 ppm
Loss on drying	≤0.2 %	Ca	≤100 ppm	K	≤50 ppm	Pb	≤50 ppm
Diluted HCl-ins. matter	≤100 ppm	Cd	≤10 ppm	Mg	≤50 ppm	Zn	≤50 ppm
Total nitrogen	≤50 ppm	Co	≤50 ppm	Mn	≤50 ppm	Assay (oxidimetric)	≥99 %
Code	Size	Packaging	Notes				
451824	100 g	Plastic bottle					
451826	500 g	Plastic bottle					



**Iron (II) sulfate heptahydrate**

Ferro solfato osso eptaidrato • Fer (II) sulfato heptahidraté • Hierro (II) sulfato heptahidratado

Synonym:

*Ferrous sulfate heptahydrate*FeSO<sub>4</sub>·7H<sub>2</sub>O

Molecular Weight: 278,05

CAS: 7782-63-0

EEC-N: 231-753-5

**Warning**

H302-H315-H319

P264-P280g-P305+P351+P338-P330-P332+P313-P337+P313

**Iron (II) sulfate heptahydrate > RPE - For analysis - ACS****RPE**

Description .....	Green - azure crystals	Ca .....	≤ 50 ppm	Mn .....	≤ 0.05 %	K .....	≤ 20 ppm
Identification .....	Positive	Chloride .....	≤ 10 ppm	Zn .....	≤ 50 ppm	Na .....	≤ 0.02 %
Ferric salt .....	≤ 0.1 %	Phosphate .....	≤ 10 ppm	Assay (oxidimetric) .....	≥ 99.0 %		
Water-insoluble matter .....	≤ 100 ppm	Cu .....	≤ 50 ppm	Mg .....	≤ 20 ppm		

Code	Size	Packaging	Notes
451878	100 g	Plastic bottle	
451877	1 kg	Plastic bottle	
451879	5 kg	Plastic jar	

**Iron (II) sulfate heptahydrate > ERBApharm - According to pharmacopoeia : BP-DAB-FU-Ph.Eur.-Ph.Franc.****ERBApharm**

Description .....	Green azure crystals	Chloride .....	≤ 200 ppm	Cu .....	≤ 50 ppm	Zn .....	≤ 50 ppm
Identification .....	Positive	Ferric ion .....	≤ 0.3 %	Mn .....	≤ 0.1 %	Assay (oxidimetric) .....	98.0 ÷ 105.0 %
pH solution 5% .....	3.0 ÷ 4.0	Cr .....	≤ 50 ppm	Ni .....	≤ 50 ppm		

Code	Size	Packaging	Notes
344957	1 kg	Plastic bottle	
344959	5 kg	Plastic jar	

**Iron (II) sulfate 0.1 mol/l**

Ferro solfato osso 0.1 mol/l • Fer (II) sulfato 0.1 mol/l • Hierro (II) sulfato 0.1 mol/l

Synonym:

*Ferrous sulfate 0.1 mol/l***Iron (II) sulfate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613001400	1 l	Plastic bottle	Ref Ph.Eur 3001400

**Iron (III) sulfate**

Ferro solfato ico • Fer (III) sulfato • Hierro (III) sulfato

Synonym:

*Ferric sulfate hydrate*Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>·nH<sub>2</sub>O

Molecular Weight: 151.85

CAS: 15244-10-7

EEC-N: 233-072-9

**Danger**

H302-H315-H318

P264-P280g-P280i-P305+P351+P338-P330-P332+P313

**Iron (III) sulfate > RPE - For analysis****RPE**

Description .....	Yellow-green powder	Dil. H <sub>2</sub> SO <sub>4</sub> -ins. matter .....	≤ 100 ppm	Cu .....	≤ 10 ppm	Zn .....	≤ 100 ppm
Identification .....	Positive	Ferrous salt .....	≤ 150 ppm	K .....	≤ 500 ppm	Assay (oxidimetric) .....	20 ÷ 23 % Fe
pH sol. 5% at 25° C .....	1.0 ÷ 2.0	As .....	≤ 3 ppm	Ni .....	≤ 100 ppm		
Chloride .....	≤ 0.1 %	Ca .....	≤ 200 ppm	Pb .....	≤ 20 ppm		

Code	Size	Packaging	Notes
451925	100 g	Plastic bottle	
451926	500 g	Plastic bottle	
451927	1 kg	Plastic bottle	



## Isoamyl acetate

Isoentile acetato • Isoamyle acétate • Isoentilo acetato

Synonym:  
Acetic acid 3-methylbutyl ester  
Isopentyl acetate

$C_7H_{14}O_2$   
Molecular Weight: 130,19  
CAS: 123-92-2  
EEC-N: 204-662-3

**Classification transport**  
ONU: 1104  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-HEU066  
P210-P241-P243-P280a-P303+P361+P353-  
P403+P235

### Isoamyl acetate > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Alcohol miscibility..... Complete    Boiling point..... 140.5 ÷ 143.5 °C    Acidity (acetic acid)..... ≤50 ppm  
Identification ..... Positive    Density at 20° C ..... 0.870 ÷ 0.874    Water (K.F.)..... ≤500 ppm    Assay (GLC) ..... ≥99.0 %  
Water miscibility..... Conform    Refractive index at 20°C. 1.3963 ÷ 1.4043    Residue on evaporation ..... ≤20 ppm

Code	Size	Packaging	Notes
417781	250 ml	Glass bottle	
417782	1 l	Glass bottle	

### Isoamyl acetate > RE - Pure

**RE**

Description ..... Clear colourless liquid    Refractive index at 20°C..... 1.3943 ÷ 1.4063    Residue on evaporation ..... ≤100 ppm  
Identification ..... Positive    Boiling point..... 140.5 ÷ 143.5 °C    Acidity (acetic acid)..... ≤0.1 %  
Density at 20° C ..... 0.870 ÷ 0.874    Water (K.F.) ..... ≤0.5 %    Assay (GLC) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
313251	1 l	Glass bottle	
313252	15 kg	Metal tank	



## Isoamyl alcohol

Alcole isoamilico • Alcool isoamylique • Alcohol isoamílico

Synonym:  
3-Methyl-1-butanol

$(CH_3)_2CHCH_2CH_2OH$   
Molecular Weight: 88,15  
CAS: 123-51-3  
EEC-N: 204-633-5

**Classification transport**  
ONU: 1105  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H332-H335  
P210-P241-P243-P303+P361+P353-P304+P340-  
P403+P235

### Isoamyl alcohol > RS - For analysis according to Gerber

**RS**

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 20° C ..... 0.810 ÷ 0.814

Code	Size	Packaging	Notes
E413903	500 ml	Glass bottle	With indicator
413892	1 l	Glass bottle	Without indicator

### Isoamyl alcohol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Clear colourless liquid    Refractive index at 20°C. 1.4023 ÷ 1.4083    Acidity ..... ≤0.002 meq/g    Carbonyl (HCOH) ..... ≤0.1 %  
Identification ..... Positive    Boiling point..... 130.5 ÷ 132.5 °C    Acids and esters..... ≤0.2 %    Assay (GLC) ..... ≥98.5 %  
Density at 20° C ..... 0.805 ÷ 0.813    Water (K.F.) ..... ≤0.5 %    Residue on evaporation ..... ≤30 ppm

Code	Size	Packaging	Notes
413801	500 ml	Glass bottle	

### Isoamyl alcohol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Refractive index at 20°C. 1.4023 ÷ 1.4083    Acidity ..... ≤0.002 meq/g    Carbonyl (HCOH) ..... ≤0.1 %  
Identification ..... Positive    Boiling point..... 130.5 ÷ 132.5 °C    Acids and esters..... ≤0.2 %    Assay (GLC) ..... ≥97 %  
Density at 20° C ..... 0.805 ÷ 0.813    Water (K.F.) ..... ≤0.5 %    Residue on evaporation ..... ≤30 ppm

Code	Size	Packaging	Notes
413832	1 l	Glass bottle	
413836	2.5 l	Glass bottle	
413833	22 kg	Metal drum	

**Isoamyl alcohol > RE - Pure**

RE

Description ..... Clear colourless liquid      Density at 20° C ..... 0.807 ÷ 0.817      Boiling point ..... 132 ± 1.5 ° C      Residue on evaporation ..... ≤0.1 %  
 Identification ..... Positive      Refractive index at 20°C. 1.4038 ÷ 1.4098      Water (K.F.) ..... ≤0.2 %      Acids and esters ..... ≤0.5 %

Code	Size	Packaging	Notes
308001	1 l	Glass bottle	
308003	22 kg	Metal drum	

**Isobutanol**

Isobutanolo • Isobutanol • Isobutanol

Synonym:  
Isobutyl alcohol

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OH  
 Molecular Weight: 74,12  
 CAS: 78-83-1  
 EEC-N: 201-148-0

**Classification transport**

ONU: 1212  
 Transport Hazard class: 3  
 Packing group III

**Danger**

H226-H315-H318-H335-H336  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

**Isobutanol > RS - Anhydrous - For analysis**

RS

Refractive index at 20°C ..... 1.394 - 1.398      Water content (K.F.) ..... ≤ 200 mg/Kg      Assay (GC) ..... ≥ 99.5 %      Free acid (as CH<sub>3</sub>COOH) ..... ≤ 40 mg/Kg  
 Colour ..... ≤ 10 Hazen      Non volatile residue ..... ≤ 10 mg/Kg      1-butanol ..... ≤ 0.4 %

Code	Size	Packaging	Notes
P0531016	1 l	Glass bottle	

**Isobutanol > RPE - For analysis - ACS**

RPE

Description ..... Clear liquid      Water solubility ..... Conform      Water (K.F.) ..... ≤0.1 %      Alkalinity (NH<sub>3</sub>) ..... ≤10 ppm  
 Colour (APHA) ..... ≤10      Density at 20° C ..... 0.801 ÷ 0.803      Residue on evaporation ..... ≤10 ppm      Indole base ..... ≤0.1 ppm  
 Identification (I.R.) ..... Positive      Refractive index at 20°C. 1.3945 ÷ 1.3975      Carbonyl Compounds (CO) ..... ≤100 ppm      Assay (GLC) ..... ≥99 %  
 Fluorescence ..... Conform      Boiling point ..... 105 ÷ 109 ° C      Acidity (acetic acid) ..... ≤100 ppm

Code	Size	Packaging	Notes
414211	1 l	Glass bottle	
414213	22 kg	Metal drum	
414214	200 l	Metal drum	

**Isobutanol > RE - Pure**

RE

Description ..... Clear colourless liquid      Refractive index at 20°C. 1.3930 ÷ 1.3990      Residue on evaporation ..... ≤50 ppm      1-Butanol ..... ≤ 0.4 %  
 Identification ..... Positive      Boiling point ..... 105.0 ÷ 109.0 °C      Acidity (acetic acid) ..... ≤ 40 ppm  
 Density at 20° C ..... 0.800 ÷ 0.804      Water (K.F.) ..... ≤0.1 %      Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
308301	1 l	Glass bottle	
308303	22 kg	Metal drum	

**Isobutyl acetate**

Isobutile acetato • Isobutyle acétate • Isobutilo acetato

Synonym:  
Acetic acid isobutyl ester

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OCOCH<sub>3</sub>  
 Molecular Weight: 116,16  
 CAS: 110-19-0  
 EEC-N: 203-745-1

**Classification transport**

ONU: 1213  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-HEU066  
 P210-P241-P243-P280a-P303+P361+P353-  
 P403+P235

**Isobutyl acetate > RPE - For analysis**

RPE

Description ..... Clear colourless liquid      Refractive index at 20°C ..... 1.3851 ÷ 1.3951      Residue on evaporation ..... ≤100 ppm  
 Identification ..... Positive      Boiling point ..... 114 ÷ 118.5 ° C      Acidity (acetic acid) ..... ≤500 ppm  
 Density at 20° C ..... 0.867 ÷ 0.877      Water (K.F.) ..... ≤0.1 %      Assay (GLC) ..... ≥98.0 %

Code	Size	Packaging	Notes
431721	500 ml	Glass bottle	

## Isobutyl acetate > RE - Pure

**RE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.3851 ÷ 1.3951	Residue on evaporation .....	≤100 ppm
Identification .....	Positive	Boiling point.....	114 ÷ 118.5 ° C	Acidity (acetic acid).....	≤500 ppm
Density at 20° C .....	0.867 ÷ 0.877	Water (K.F.).....	≤0.2 %	Assay (GLC).....	≥97 %

Code	Size	Packaging	Notes
325631	1 l	Glass bottle	
325633	24 kg	Metal tank	

## Isobutylacetone ► Methylisoamyl ketone

## Isobutyl alcohol ► Isobutanol



## Isobutyric acid

Acido iso-butirrico • Acide isobutyrique • Acido isobutírico

 Synonym:  
2-Methylpropanoic acid

$(CH_3)_2CHCOOH$   
 Molecular Weight: 88,11  
 CAS: 79-31-2  
 EEC-N: 201-195-7

**Classification transport**  
 ONU: 2529  
 Transport Hazard class: 3  
 Packing group III



**Warning**  
 H226-H302-H312  
 P210-P241-P264-P243-P303+P361+P353-  
 P403+P235

## Isobutyric acid > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.945 ÷ 0.955	Sulphate .....	≤50 ppm
Identification .....	Positive	Refractive index at 20°C.....	1.3900 ÷ 1.3960	Assay (GLC) .....	≥99 %

Code	Size	Packaging	Notes
403272	500 ml	Glass bottle	



## Isohexane

iso-Esano • Isohexane • Isohexano

 Synonym:  
2-Methylpentane

$C_6H_{14}$   
 Molecular Weight: 86,18  
 CAS: 107-83-5  
 EEC-N: 203-523-4

**Classification transport**  
 ONU: 1208  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H315-H336-H304-H411  
 P210-P241-P264-P273-P303+P361+P353-  
 P304+P340-P403+P235

## Isohexane > RS - For HPLC - Isocratic Grade

**RS**

Clear, colourless liq. appearance .....	Conform	Water content (K.F.) .....	≤ 150 mg/Kg	Total C6H14 isomers (GC) .....	≥ 80 %	UV transmittance at 220 nm .....	≥ 80 %
Colour .....	≤ 10 Apha	Non volatile residue .....	≤ 5 mg/Kg	UV transmittance at 200 nm .....	≥ 25 %	UV transmittance at 230 nm .....	≥ 90 %
Identification (IR).....	Conform	n-hexane .....	≤ 6 %	UV transmittance at 210 nm .....	≥ 55 %	UV transmittance at 250 nm .....	≥ 98 %

Code	Size	Packaging	Notes
445152	1 l	Glass bottle	
445151	2.5 l	Glass bottle	

## Isohexane > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination

**RS**

Appearance .....	Clear colourless liquid	n-hexane .....	≤ 3 %	<b>Retention time trichlorobenzene to mirex</b>	<b>Retention time n-decane - n-tetracon-</b>
Identification (IR).....	Conform	Total C6H14 isomers (GC) .....	≥ 95 %	GC-FID. Hydrocarbon oil index.....	≤ 0.05 mg/l
Water content (K.F.) .....	≤ 50 mg/Kg	Non volatile residue .....	≤ 2 mg/Kg		
Colour .....	≤ 5 Hazen	GC-ECD. Individual peak (Lindane) .....	≤ 3 ng/l		
					GC-FID. Individual peak (C10-C40) .....
					≤ 5 µg/l
					Total sulphur (S) .....
					≤ 1 ppm

Code	Size	Packaging	Notes
P6263216	1 l	Glass bottle	
P6263221	2.5 l	Glass bottle	

## Isohexane > RS - PESTIPUR - For pesticide analysis

**RS**

Water content (K.F.) .....	≤ 100 mg/Kg	n-hexane .....	≤ 5 %	GC-ECD. Individual peak (Lindane) .....	≤ 3 ng/l
Colour .....	≤ 10 Hazen	Total C6H14 isomers (GC) .....	≥ 80 %	<b>Retention time trichlorobenzene to mirex</b>	
Identification (IR).....	Conform	Non volatile residue .....	≤ 5 mg/Kg	Appearance .....	Clear colourless liquid

Code	Size	Packaging	Notes
447131	1 l	Glass bottle	
447132	2.5 l	Glass bottle	

**Isohexane > RPE - For analysis****RPE**

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 150 ppm	Total C <sub>6</sub> H <sub>14</sub> isomers (GC) .....	≥ 80 %	Total sulphur (S) .....	≤ 1 ppm
Colour .....	≤ 10 APHA	Residue on evaporation .....	≤ 10 ppm	n-Hexane .....	≤ 5 %		
Identification (I.R.) .....	Conform	Aromatic compounds .....	≤ 50 ppm	Methylcyclopentane .....	≤ 16 %		

Code	Size	Packaging	Notes
447311	1 l	Glass bottle	
447312	2.5 l	Glass bottle	

**L(+)-Isoleucine**

L(+)-Isoleucina • L(+)-Isoleucine • L(+)-Isoleucina

Synonym:

(2S,3S)-2-Amino-3-methylpentanoic acid

CH<sub>3</sub>CH<sub>2</sub>(CH<sub>3</sub>)CHCHNH<sub>2</sub>COOH

Molecular Weight: 131,18

CAS: 73-32-5

EEC-N: 200-798-2

**L(+)-Isoleucine > RPE - For analysis****RPE**

Description .....	White crystalline powder	Loss on drying .....	≤ 0.1 %	Heavy metals (Pb) .....	≤ 10 ppm	Fe .....	≤ 10 ppm
Identification .....	Positive	Ammonium .....	≤ 10 ppm	Residue on ignition .....	≤ 500 ppm	Assay (non-aqueous medium) .....	≥ 99 %
Melting point .....	283.0 ÷ 285.0 °C	Chloride .....	≤ 50 ppm	Tyrosine .....	≤ 200 ppm		
Specific optical rotation ...	+10.8 ÷ +11.8 °	Total phosphorus .....	≤ 10 ppm	Total sulphur .....	≤ 50 ppm		

Code	Size	Packaging	Notes
457957	1 g	Glass bottle	

**Isooctane**

Isoottano • Isooctane • Isooctano

Synonym:

2,2,4-Trimethylpentane

(CH<sub>3</sub>)<sub>3</sub>CCH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>  
Molecular Weight: 114,23

CAS: 540-84-1

EEC-N: 208-759-1

**Classification transport**

ONU: 1262

Transport Hazard class: 3

Packing group II

**Danger**

H225-H315-H336-H304-H410

P210-P241-P303+P361+P353-P301+P310a-P405-P501a

**Isooctane > RS - For HPLC - Isocratic Grade****RS**

Description .....	Clear liquid	Boiling point .....	98.2 ÷ 100.2 °C	Acidity or alkalinity .....	≤ 0.0002 meq/g	at 260 nm .....	≥ 95 %
Colour .....	≤ 10 hazen	Not volatile residue .....	≤ 5 ppm	Assay (GLC) .....	≥ 99.5 %	at 215 nm .....	≥ 60 %
Density at 20° C .....	0.687 ÷ 0.697	Water (K.F.) .....	≤ 50 ppm	<b>U.V. Transmittance</b>		at 270 nm .....	≥ 97 %
Identification .....	Positive	Free acids (CH <sub>3</sub> COOH) .....	≤ 20 ppm	at 220 nm .....	≥ 70 %	at 240 nm .....	≥ 95 %
Refractive index at 20° C .....	1.3885 ÷ 1.3945	Residue on evaporation .....	≤ 2 ppm	at 230 nm .....	≥ 85 %	<b>Filtered at 0.2 µm</b>	
Water .....	≤ 50 ppm	Aromatic compounds .....	≤ 5 ppm	at 205 nm .....	≥ 10 %		

Code	Size	Packaging	Notes
412441000	1 l	Glass bottle	
412442000	2.5 l	Glass bottle	

**Isooctane > RS - PESTIPUR - For pesticide analysis****RS**

Description .....	Clear colourless liquid	Water .....	≤ 50 ppm	GC-ECD (Lindano) .....	≤ 3 ng/l
Identification .....	Positive	Free acids (CH <sub>3</sub> COOH) .....	≤ 20 ppm	GC-NPD (Ethylparation) .....	≤ 3 ng/l
Colour .....	≤ 10 hazen	Not volatile residue .....	≤ 2 ppm	Assay (GLC) .....	≥ 99.5 %

Code	Size	Packaging	Notes
456791	1 l	Glass bottle	
456792	2.5 l	Glass bottle	

**Isooctane > RS - SPECTROSOL - For optical spectroscopy - Reag.Ph.Eur.****RS**

Description .....	Clear liquid	Boiling point .....	98 ÷ 100 °C	Aromatic compounds .....	≤ 5 ppm	at 230 nm .....	≥ 85 %
Colour (APHA) .....	≤ 10	Acidity or alkalinity .....	≤ 0.0002 meq/g	<b>U.V. Transmittance</b>		UV Absorbance from 250 nm to 420 nm .....	≤ 0.01 AU
Identification .....	Positive	Water (K.F.) .....	≤ 50 ppm	at 255 nm .....	≥ 98 %		
Density at 20° C .....	0.691 ÷ 0.696	Residue on evaporation .....	≤ 5 ppm	at 210 nm .....	≥ 35 %		
Refractive index at 20° C .....	1.3910 ÷ 1.3930	Assay (GLC) .....	≥ 99.5 %	at 220 nm .....	≥ 72 %		

Code	Size	Packaging	Notes
456754	1 l	Glass bottle	
456753	2.5 l	Glass bottle	

## Isooctane > RS - Standard for refractometry

**RS**

Description ..... Clear colourless liquid      Identification ..... Positive      Density at 20° C ..... 0.687 ÷ 0.697      Refractive index at 20°C. 1.3905 ÷ 1.3925

Code	Size	Packaging	Notes
456641	100 ml	Glass bottle	

## Isooctane > RPE - For analysis - ACS

**RPE**

Description ..... Clear colourless liquid      Density at 20°C ..... 0.691 - 0.696      Residue on evaporation ..... ≤ 0.001 %      Distillation range 95% distills between ..... 98 - 100 °C  
 Identification (I.R.) ..... Positive      Refractive index at 20°C ..... 1.391 - 1.393      Sulfur compounds (S) ..... ≤ 0.0005 %      Water (K.F.) ..... ≤ 100 ppm  
 Colour ..... ≤ 10 APHA      Water-soluble titrable acid ≤ 0.0003 meq/g      Assay (CPG) ..... ≥ 99,5 %      Aromatics ..... ≤ 10 ppm

Code	Size	Packaging	Notes
456734	1 l	Glass bottle	
456732	2.5 l	Glass bottle	

## Isooctane > RE - ASTM

**RE**

Description ..... Clear liquid      Boiling point ..... 98.2 ÷ 100.2 °C      Total sulphur ..... ≤ 10 ppm      Assay (GLC) ..... ≥ 99.5 %  
 Identification ..... Positive      Residue on evaporation ..... ≤ 20 ppm      Lead ..... ≤ 0.5 mg/l  
 Density at 20°C ..... 0.687 ÷ 0.697      Water (K.F.) ..... ≤ 150 ppm      n-heptane (ASTM) ..... ≤ 0.10 % v/v  
 Refractive index at 20°C. 1.3885 ÷ 1.3945      Aromatics ..... ≤ 50 ppm      Isooctane (ASTM) ..... ≥ 99.75 % v/v

Code	Size	Packaging	Notes
528963	2.5 l	Glass bottle	
528960	5 l	Plastic tank	
528961	25 l	Metal drum	
528962	200 l	Metal drum	



## Isopar G

Isopar G • Isopar G • Isopar G

Molecular Weight: 150  
 CAS: 90622-57-4  
 EEC-N: 292-459-0

### Classification transport

ONU: 3295  
 Transport Hazard class: 3  
 Packing group III



### Danger

H226-H304-H413-HEU066  
 P210-P241-P273-P243-P303+P361+P353-  
 P403+P235

## Isopar G > RS - RSE - For electronic use

**RS**

Appearance ..... Clear colourless liquid      Density at 15°C ..... 0.745 ÷ 0.756      Distillation range ..... 159 ÷ 176 °C      Aromatics ..... ≤ 0.01 %  
 Colour ..... ≤ 10 APHA      Refractive index at 20°C ..... 1.416 ÷ 1.418      Residue on evaporation ..... ≤ 10 ppm

Code	Size	Packaging	Notes
526151	2.5 l	Glass bottle	



## Isopentane

Isopentano • Isopentane • Isopentano

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>CH<sub>3</sub>  
 Molecular Weight: 72,15  
 CAS: 78-78-4  
 EEC-N: 201-142-8

### Classification transport

ONU: 1265  
 Transport Hazard class: 3  
 Packing group I



### Danger

H224-H336-H304-H411-HEU066  
 P210-P241-P273-P303+P361+P353-P304+P340-  
 P403+P235

## Isopentane > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C ..... 1.352 - 1.356      Non volatile residue ..... ≤ 10 mg/Kg      Colour ..... ≤ 10 Hazen      Identification (IR) ..... Conform  
 Water content (K.F.) ..... ≤ 50 mg/Kg      Aromatic compounds ..... ≤ 20 mg/Kg      Assay (GC) ..... ≥ 95 %      Total sulphur (S) ..... ≤ 2 ppm

Code	Size	Packaging	Notes
P0651016	1 l	Glass bottle	

## Isopentane > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Refractive index at 20°C ..... 1.352 ÷ 1.356      Aromatic compounds ..... ≤ 20 ppm  
 Colour ..... ≤ 10 APHA      Water (K.F.) ..... ≤ 150 ppm      Assay (CPG) ..... ≥ 95 %  
 Identification (I.R.) ..... Conform      Residue on evaporation ..... ≤ 10 ppm      Total sulphur (S) ..... ≤ 2 ppm

Code	Size	Packaging	Notes
524391	1 l	Glass bottle	

**Isopentane > RE - Pure****RE**

Description .....	Clear colourless liquid	Density at 20°C .....	0.610 ÷ 0.630	Water (K.F.) .....	≤ 200 ppm	Total sulphur (S) .....	≤ 2 ppm
Identification .....	Positive	Refractive index at 20°C .....	1.3507 ÷ 1.3607	Residue on evaporation .....	≤ 20 ppm	Assay .....	≥ 95.0 %
Colour .....	≤ 10 APHA	Boiling point .....	27 ÷ 28.5 °C	Aromatics .....	≤ 50 ppm		

Code	Size	Packaging	Notes
528492	1 l	Glass bottle	
528491	5 l	Metal tank	

**Isopentyl acetate ► Isoamyl acetate****Isophorone**

Isoforone • Isophorone • Isoforona

Synonym:

3,5,5-Trimethyl-2-cyclohexen-1-one

$(\text{CH}_3)_2\text{CCH}_2\text{COCH}_2\text{C}(\text{CH}_3)_2\text{CH}_2$   
 Molecular Weight: 138,21  
 CAS: 78-59-1  
 EEC-N: 201-126-0

**Warning**

H302-H312-H319-H351-H335  
 P264-P271-P304+P340-P305+P351+P338-  
 P308+P313-P330

**Isophorone > RPE - For analysis****RPE**

Description .....	Yellow clear liquid	Identification .....	Positive	Refractive index at 20°C .....	1.4750 ÷ 1.4790	Assay (GLC) .....	≥ 97.5 %
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Code	Size	Packaging	Notes
456771	250 ml	Glass bottle	

**Isopropanol ► Propan-2-ol****Isopropyl acetate**

Isopropile acetato • Isopropyle acétate • Isopropilo acetato

Synonym:

Acetic acid isopropyl ester

$\text{CH}_3\text{COOCH}(\text{CH}_3)_2$   
 Molecular Weight: 102,13  
 CAS: 108-21-4  
 EEC-N: 203-561-1

**Classification transport**

ONU: 1220  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H319-H336-HEU066  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

**Isopropyl acetate > RPE - For analysis****RPE**

Description .....	Clear liquid	Colour .....	≤ 10 APHA	Free acid (as CH <sub>3</sub> COOH) .....	≤ 50 mg/Kg	Residue on evaporation .....	≤ 10 ppm
Water content (K.F.) .....	≤ 100 mg/Kg	Density at 20° C .....	0.869 ÷ 0.875	Boiling point .....	88 ÷ 89 ° C	Acidity (acetic acid) .....	≤ 50 ppm
Identification .....	Positive	Assay (GC) .....	≥ 99 %	2-Propanol .....	≤ 1000 mg/Kg	Assay (GLC) .....	≥ 99.8 %
Non volatile residue .....	≤ 10 mg/Kg	Refractive index at 20°C .....	1.3760 ÷ 1.3780	Water (K.F.) .....	≤ 0.05 %		

Code	Size	Packaging	Notes
474821	250 ml	Glass bottle	
P0890528	5 l	Metal tank	

**Isopropyl acetate > RE - Pure****RE**

Refractive index at 20°C .....	1.375 - 1.379	Water content (K.F.) .....	≤ 800 mg/Kg	Colour .....	≤ 10 Hazen	Free acid (as CH <sub>3</sub> COOH) .....	≤ 50 mg/Kg
Appearance .....	Clear liquid	Non volatile residue .....	≤ 20 mg/Kg	Assay (GC) .....	≥ 99 %	2-Propanol .....	≤ 1000 mg/Kg

Code	Size	Packaging	Notes
P0890228	5 l	Plastic tank	
P0890240	10 l	Metal tank	
P0890268	200 l	Metal drum	



## Isopropylamine

Isopropilammina • Isopropylamine • Isopropilamina

Synonym:  
2-Aminopropane

$(CH_3)_2CHNH_2$   
Molecular Weight: 59,11  
CAS: 75-31-0  
EEC-N: 200-860-9

**Classification transport**  
ONU: 1221  
Transport Hazard class: 3  
Packing group I



**Danger**  
H224-H315-H319-H335  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Isopropylamine > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 0.687 ÷ 0.693    Water (K.F.) ..... ≤0.1 %  
Identification ..... Positive    Residue on evaporation ..... ≤50 ppm    Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
474756	1 l	Glass bottle	



## Isopropyl myristate

Miristato di isopropile • Myristate d'isopropyle • Isopropilo Miristato

Synonym:  
Isopropyl tetradecanoate  
Myristic acid isopropyl ester

$C_{17}H_{34}O_2$   
Molecular Weight: 2.704.507  
CAS: 110-27-0  
EEC-N: 203-751-4

### Isopropyl myristate > RS - For synthesis

**RS**

Clear, colourless liq. appearance ..... Conform    Dichloromethane miscibility ..... Miscible    Viscosity at 20°C ..... 5 - 6 mPa.s    Water content (K.F.) ..... ≤ 0.1 % m/m  
Clear, colourless solution appearance ..... Conform    Identification B ..... Conform    Acid number ..... ≤ 1 mg KOH /g    Sulfuric ashes ..... ≤ 0.1 %  
Conform    Refractive index at 20°C.. 1.4340 - 1.4370    Iodine number ..... ≤ 1 g I2/100g  
Alcohol miscibility ..... Miscible    Assay (GC) (C17H34O2) ..... ≥ 92 %    Saponification number 202 - 212 mg KOH/g

Code	Size	Packaging	Notes
P6070268	205 l	Metal drum	





## Kaolin washed

Caolino lavato • Kaolin lavé • Caolin lavado

Synonym:  
Halloysite nanoclay  
Kaolin clay

CAS: 1332-58-7  
EEC-N: 310-194-1

### Kaolin washed > RE - Pure

RE

Description ..... White hazel powder    Identification ..... Positive    Loss on drying ..... ≤ 1 %    Loss on ignition ..... 10.4 ÷ 11.8 %

Code	Size	Packaging	Notes
332573	5 kg	Plastic jar	
332574	25 kg	Sack	



## Karl Fischer buffer solution

Karl Fischer buffer solution • Karl Fischer solution tampon • Karl Fischer solución tampón

### Karl Fischer buffer solution > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570111	500 ml	Glass bottle	



## Karl Fischer fritless reagent

Karl Fischer reagente per celle senza diaframma • Karl Fischer réactif pour la cellule sans diaphragme • Karl Fischer reactivo para la celda sin diafragma

### Karl Fischer fritless reagent > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570131	500 ml	Glass bottle	

*Can also be used with titrators that contain diaphragms or ceramic frits*



## Karl Fischer anolyte solution - CFC free

Karl Fischer soluzione anolita - senza CFC • Karl Fischer anolyte solution - sans CFC • Karl Fischer anolito solución - sin CFC

### Karl Fischer anolyte solution - CFC free > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570141	500 ml	Glass bottle	

*Pyridin and chlorocarbon free vessel solution which retains solvent properties of the chloroform-containing solution - Suitable for non-polar samples - For cells with & without diagrams*



## Karl Fischer anolyte solution for ketones and aldehydes - Methanol free

Karl Fischer soluzione anolita per aldeidi e chetoni - senza metanolo • Karl Fischer anolyte solution pour cétones et aldéhydes - Sans méthanol • Karl Fischer anolito solución para aldehídos y cetonas - libre de metanol

### Karl Fischer anolyte solution for ketones and aldehydes - Methanol free > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570161	500 ml	Glass bottle	



## Karl Fischer anolyte solution for oils

Karl Fischer soluzione anolita per olii • Karl Fischer anolyte solution pour les huiles • Karl Fischer anolito solución para los aceites

### Karl Fischer anolyte solution for oils > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570171	500 ml	Glass bottle	

*Suitable for oils and petroleum products. For cells with diagrams*



## Karl Fischer anolyte solution, oven

Karl Fischer soluzione anolitica, con forno • Karl Fischer anolyte solution, pour four • Karl Fischer anolito solución para horno

### Karl Fischer anolyte solution, oven > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570151	500 ml	Glass bottle	

**Fritless reagent for use in conjunction with Karl Fischer oven-Pyridin and chlorocarbon free - For cells with & without diagrams**



## Karl Fischer anolyte solution - pyridine free

Karl Fischer anolyte solution - pyridine free • Karl Fischer anolyte solution - sans pyridine • Karl Fischer catolito solución - sin piridina

### Karl Fischer anolyte solution - pyridine free > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570121	500 ml	Glass bottle	



## Karl Fischer catholyte solution - Pyridine free

Karl Fischer soluzione catolita - senza piridina • Karl Fischer catholyte solution - Sans pyridine • Karl Fischer catolito solución - libre de piridina

### Karl Fischer catholyte solution - Pyridine free > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570181	125 ml	Glass bottle	



## Karl Fischer catholyte solution

Karl Fischer soluzione catolita • Karl Fischer catholyte solution • Karl Fischer catolito solución

### Karl Fischer catholyte solution > RS - ERBAqua - Coulometric titration

RS

Code	Size	Packaging	Notes
570191	125 ml	Glass bottle	



## Karl Fischer reagent 1 component 5 mg H<sub>2</sub>O/ml

Karl Fischer reattivo 5 mg H<sub>2</sub>O/ml monocomponente • Réactif de Karl Fischer 1 composant 5 mg H<sub>2</sub>O/ml • Karl Fischer reactivo 1 compuesto 5 mgH<sub>2</sub>O/ml

### Karl Fischer reagent 1 component 5 mg H<sub>2</sub>O/ml > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570011	1 l	Glass bottle	
570241	1 l	Glass bottle	New formulation. Not regulated for transport.

**Pyridine free. Suitable for general purpose or aldehydes and ketones - To be used with anhydrous solvents (methanol, chloroform)**



## Karl Fischer reagent 1 component 2 mg H<sub>2</sub>O/ml

Karl Fischer reattivo 2 mg H<sub>2</sub>O/ml monocomponente • Réactif de Karl Fischer 1 composant 2 mgH<sub>2</sub>O/ml • Karl Fischer reactivo 1 compuesto 2 mgH<sub>2</sub>O/ml

### Karl Fischer reagent 1 component 2 mg H<sub>2</sub>O/ml > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570021	1 l	Glass bottle	
570251	1 l	Glass bottle	New formulation. Not regulated for transport.

**Pyridine free. Suitable for general purpose or aldehydes and ketones - To be used with anhydrous solvents (methanol, chloroform)**



## Karl Fischer titrant 2 component 5 mg H<sub>2</sub>O/ml

Karl Fischer titolante bicomponente 5 mg H<sub>2</sub>O/ml • Karl Fischer titrant 2 composants 5 mg H<sub>2</sub>O/ml • Karl Fischer reactivo de valoración 2 compuestos 5 mg H<sub>2</sub>O/ml

### Classification transport

ONU: 1992  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H301-H331-H315-H319-H370-H372  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Karl Fischer titrant 2 component 5 mg H<sub>2</sub>O/ml > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570081	1 l	Glass bottle	



## Karl Fischer solvent for aldehydes and ketones one component

Karl Fischer solvante monocomponente per aldeidi e chetoni • Karl Fischer solvant 1 composant pour aldéhydes et cétones • Karl Fischer solvante 1 compuesto para aldehídos y cetonas

### Karl Fischer solvent for aldehydes and ketones one component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570041	1 l	Glass bottle	

**To be used with one component Karl Fischer reagents. For determination of water in aldehydes and ketones. Especially suitable for higher MW products and mixtures containing non - polar constituents.**



## Karl Fischer solvent for oils one component

Karl Fischer solvante monocomponente per olii • Karl Fischer solvant pour huiles 1 composant • Karl Fischer solvante para los aceites 1 compuesto

### Classification transport

ONU: 1992  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H301-H315-H319-H351-H361d-H370-H372-H412  
P210-P241-P264-P273-P303+P361+P353-P305+P351+P338-P403+P235

### Karl Fischer solvent for oils one component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570031	1 l	Glass bottle	

**To be used with Karl Fischer reagents. For determination of water in oils or other non polar compounds.**



## Karl Fischer solvent 2 component

Karl Fischer solvent 2 component • Karl Fischer solvent 2 component • Karl Fischer solvante 2 componentes

### Karl Fischer solvent 2 component > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570071	1 l	Glass bottle	



## Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free

Karl Fischer solvante bicomponente per aldeidi e chetoni - senza metanolo • Karl Fischer solvant 2 composants pour aldéhydes et cétones - Sans méthanol • Karl Fischer solvante 2 compuestos para aldehídos y cetonas - sin metanol

### Karl Fischer solvent 2 component for aldehydes and ketones - Methanol free > RS - ERBAqua - Volumetric titration

RS

Code	Size	Packaging	Notes
570091	1 l	Glass bottle	



## Karl Fischer solvent for oils 2 component

Karl Fischer solvante bicomponente per olii • Karl Fischer solvant pour huiles 2 composant • Karl Fischer solvante para los aceites 2 compuestos

**Karl Fischer solvent for oils 2 component > RS - ERBAqua - Volumetric titration**

RS

Code	Size	Packaging	Notes
570101	1 l	Glass bottle	

**To be used with a two component Karl Fischer titrant 570051 or 570061. For determination of water in oils or other non-polar compounds**



## Karl Fischer titrant 2 component 5 mg H<sub>2</sub>O/ml - non hygroscopic

Karl Fischer titolante bicomponente 5 mg H<sub>2</sub>O/ml - non igroscopico • Karl Fischer titrant 2 composants 5 mg H<sub>2</sub>O/ml - non hygroscopique • Karl Fischer reactivo de valoración 2 compuestos 5 mg H<sub>2</sub>O/ml - no higroscópico

**Karl Fischer titrant 2 component 5 mg H<sub>2</sub>O/ml - non hygroscopic > RS - ERBAqua - Volumetric titration**

RS

Code	Size	Packaging	Notes
570051	1 l	Glass bottle	



## Karl Fischer titrant 2 component 2 mg H<sub>2</sub>O/ml - non hygroscopic

Karl Fischer titolante bicomponente 2 mg H<sub>2</sub>O/ml - non igroscopico • Karl Fischer titrant 2 composants 2 mg H<sub>2</sub>O/ml - non hygroscopique • Karl Fischer reactivo de valoración 2 compuestos 2 mg H<sub>2</sub>O/ml - no higroscópico

**Karl Fischer titrant 2 component 2 mg H<sub>2</sub>O/ml - non hygroscopic > RS - ERBAqua - Volumetric titration**

RS

Code	Size	Packaging	Notes
570061	1 l	Glass bottle	



## Karl Fischer water standard 0.10 mg/g

Karl Fischer standard 0.10 mg/g acqua • Karl Fischer standard eau 0.10 mg/g • Karl Fischer agua estándar 0.10 mg/g

**Karl Fischer water standard 0.10 mg/g > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment**

RS

Code	Size	Packaging	Notes
570201	10 x 5 ml	Glass bottle	

**Gravimetric standard**



## Karl Fischer water standard 1.0 mg/g

Karl Fischer standard 1.0 mg/g acqua • Karl Fischer standard eau 1.0 mg/g • Karl Fischer agua estándar 1.0 mg/g

**Karl Fischer water standard 1.0 mg/g > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment**

RS

Code	Size	Packaging	Notes
570211	10 x 5 ml	Glass bottle	

**Gravimetric standard**



## Karl Fischer water standard 10.0 mg/g

Karl Fischer standard 10.0 mg/g acqua • Karl Fischer standard eau 10.0 mg/g • Karl Fischer agua estándar 10.0 mg/g

**Karl Fischer water standard 10.0 mg/g > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment**

RS

Code	Size	Packaging	Notes
570221	10 x 5 ml	Glass bottle	

**Gravimetric standard**



## Karl Fischer water standard 5.0 mg/ml

Karl Fischer standard 5.0 mg/ml acqua • Karl Fischer standard eau 5.0 mg/ml • Karl Fischer agua estándar 5.0 mg/ml

**Karl Fischer water standard 5.0 mg/ml > RS - ERBAqua - For checking calibration of coulometric Karl Fischer equipment**

RS

Code	Size	Packaging	Notes
570231	10 x 5 ml	Glass bottle	

**Volumetric standard**



## Kerosene

Cherosene • Kérosène • Queroseno

CAS: 64742-47-8  
EEC-N: 265-149-8



**Danger**

H226-H304  
P210-P241-P243-P280a-P303+P361+P353-  
P403+P235

**Kerosene > RE - Pure**

RE

Description ..... Clear colourless liquid Identification ..... Positive Boiling point min. .... ≥ 175 °C Boiling point max. .... ≤ 245 °C

Code	Size	Packaging	Notes
302575	5 l	Plastic tank	



## Kieselguhr composed

Farina fossile composta • Terre de silice composée • Harina fósil compuesta

Synonym:  
Diatomaceous earth

Molecular Weight: 1495  
CAS: 91053-39-3  
EEC-N: 293-303-4



**Warning**

H373  
P260-P314-P501a

**Kieselguhr composed > RS - For thin layer chromatography according to Stahl**

RS

Description ..... Grey powder Identification ..... Positive

Code	Size	Packaging	Notes
449895	250 g	Plastic bottle	
449897	1 kg	Plastic jar	



## Kjeldahl antifoam

Kjeldahl antischiuma • Kjeldahl Antimousse • Kjeldahl antiespumante

**Kjeldahl antifoam > RS - For Kjeldahl**

RS

Description ..... White round flat tablets

Code	Size	Packaging	Notes
502811	1000 x 1 g	Metallic can	Composition: Sodium sulfate 0.97 g/Silicone antifoam 0.03 g



## Kjeldahl catalyst according to Wieninger

Kjeldahl catalizzatore sec. Wieninger • Catalyseur Kjeldahl selon Wieninger • Catalizador Kjeldahl según Wieninger

H412  
P273-P501a

**Kjeldahl catalyst according to Wieninger > RS - For Kjeldahl**

RS

Description ..... Grey round flat tablets

Code	Size	Packaging	Notes
502821	1000 x 5 g	Metallic can	Composition : Sodium sulfate 4.88 g/ Copper sulfate 0.07 g/ Selenium 0.05 g



## Kjeldahl catalyst for water analysis

Kjedahl catalizzatore per analisi dell'acqua • Catalyseur Kjeldahl pour analyse de l'eau • Catalizador Kjeldahl para análisis del agua

HEU210

### Kjeldahl catalyst for water analysis > RS - For Kjeldahl

RS

Description .....Dark grey round flat tablets

Code	Size	Packaging	Notes
502121	1000 x 5 g	Metallic can	Composition : Potassium sulfate 5.0 g/Selenium 5 mg
502122	1000 x 5 g	Metallic can	Composition : Potassium sulfate 5.0 g/Selenium 50 mg



## Kjeldahl catalyst without selenium and titanium

Kjedahl catalizzatore • Catalyseur Kjeldahl exempt de sélénium et titane • Catalizador Kjeldahl sin selenio y potasio

### Classification transport

ONU: 3077

Transport Hazard class: 9

Packing group III



H411

P273-P391-P501a

### Kjeldahl catalyst without selenium and titanium > RS - For Kjeldahl

RS

Description ..... Blue speckled round flat tablets

Code	Size	Packaging	Notes
502791	1000 x 3.9 g	Metallic can	Composition : Potassium sulfate 3.50 g/Copper sulfate 0.40 g
502792	1000 x 5 g	Metallic can	Composition : Potassium sulfate 5.0 g/Copper sulfate 0.50 g



## Kjeldahl selenium catalyst

Kjedahl catalizzatore al selenio • Catalyseur Kjeldahl au sélénium • Catalizador Kjeldahl al selenio

### Classification transport

ONU: 3077

Transport Hazard class: 9

Packing group III



### Warning

H302-H411

P264-P273-P270-P330-P301+P312a-P391

### Kjeldahl selenium catalyst > RS - For Kjeldahl

RS

Description .....Dark grey round flat tablets

Code	Size	Packaging	Notes
502120	1000 x 5 g	Metallic can	Composition : Potassium sulfate 4.63 g/Copper sulfate 0.28 g/ Selenium 0.09g



## Kjeldahl titanium catalyst

Kjedahl catalizzatore al titanio • Catalyseur Kjeldahl au titane • Catalizador Keldahl al titanio

### Kjeldahl titanium catalyst > RS - For Kjeldahl

RS

Description ..... Blue speckled round flat tablets

Code	Size	Packaging	Notes
502123	1000 x 3.5 g	Metallic can	Composition : Potassium sulfate 3.5 g/Copper sulfate 0.105 g/ Titane dioxide 0.105 g
502801	1000 x 5 g	Metallic can	Composition : Potassium sulfate 5.00 g/Copper sulfate 0.15 g/ Titane dioxide 0.15 g



## Kovac reagent

Kovac reattivo per indolo • Réactif pour l'indole selon Kovac • Kovac reactivo

### Classification transport

ONU: 2922  
 Transport Hazard class: 8  
 Packing group II



### Warning

H226-H332-H315-H319-H335  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

### Kovac reagent > RS - Reagent for indole

RS

Description ..... Clear yellow green liquid      Identification ..... Positive

Code	Size	Packaging	Notes
435922	100 ml	Glass bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

 <b>Lactic acid</b> Acido lattico • Acide lactique • Acido láctico	Synonym: <i>Sarcolactic acid</i>	
	$\text{CH}_3\text{CHOHCOOH}$ Molecular Weight: 90,08 CAS: 79-33-4 EEC-N: 201-196-2	 <b>Danger</b> H315-H318 P264-P280g-P280i-P305+P351+P338-P332+P313-P302+P352a

**Lactic acid > ERBApharm - According to pharmacopoeia : BP-DAB-FU-Ph.Eur.-Ph.Franc.** **ERBApharm**

Description .....Syrupy colourless to slightly yellow liq.	Reducing substances .....Conform Ph.Eur.	Density at 20° C .....1.20 ÷ 1.21	Ca.....≤200 ppm
Identification .....Positive	Ether ins. substances .....Conform Ph.Eur.	Sulphated ash.....≤ 0.1 %	Assay (acidimetric) ..... 88.0 ÷ 92.0 %
Appearance .....Conform Ph.Eur.	Citric, oxalic, phosphoric acids .....Conform Ph.Eur.	Heavy metals (Pb).....≤10 ppm	Origin (BSE/TSE)..... Synthesis
		Sulphate.....≤200 ppm	Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
304652	1 l	Glass bottle	
304651	2.5 l	Glass bottle	
304653	25 kg	Plastic tank	

L-Lactic acid calcium salt ► Calcium lactate

 <b>Lactophenol blue solution</b> Blu lattofenolo soluzione • Bleu de lactophénol solution • Azul lactofenol solución	<b>Classification transport</b> ONU: 3265 Transport Hazard class: 8 Packing group II	   <b>Danger</b> H302-H312-H332-H314-H318-H341-H373 P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Lactophenol blue solution > RS - For microscopy** **RS**

Description .....Dark blue liquid Identification ..... Positive

Code	Size	Packaging	Notes
428901	100 ml	Glass bottle	

CE  **Dye for bacteriology. Contains phenol and lactic acid**

 <b>Lactose</b> Lattosio • Lactose • Lactosa	Synonym: <i>4-O-β-D-Galactopyranosyl-D-glucose</i>	
	$\text{C}_{12}\text{H}_{22}\text{O}_{11}\cdot\text{H}_2\text{O}$ Molecular Weight: 360,32 CAS: 10039-26-6 EEC-N: 200-559-2	

**Lactose > RPE - For analysis - ACS** **RPE**

Description .....White crystalline powder	Sucrose .....Conform	Residue on ignition.....≤300 ppm
Identification .....Positive	Water (K.F) ..... 4.0 ÷ 6.0 %	Heavy metals (Pb).....≤5 ppm
Dextrose .....Conform	Water-insoluble matter .....≤50 ppm	Fe .....≤5 ppm

Code	Size	Packaging	Notes
457551	100 g	Plastic bottle	
457552	250 g	Plastic bottle	
457557	1 kg	Plastic bottle	
457553	25 kg	Plastic bucket	



**Lactose > ERBApharm - According to pharmacopoeia : DAB-BP-FU-NF-Ph.Eur.****ERBApharm**

Description .....	White crystalline powder	Absorbance .....	Conform Ph.Eur.	Loss on drying .....	≤ 0.5 %	TYMC .....	≤ 50 CFU/g
Identification .....	Positive	Specific optical rotation on dry .....	+54.4 ÷ +55.9 °	Sulphated ash .....	≤ 0.1 %	Escherichia coli .....	Absent Ph.Eur
Appearance of solution .....	Conform Ph.Eur.	Water (K.F) .....	4.5 ÷ 5.5 %	Heavy metals (Pb) .....	≤ 5 ppm		
Acidity or alkalinity .....	Conform Ph.Eur.			TAMC .....	≤ 100 CFU/g		

Code	Size	Packaging	Notes
348707	1 kg	Plastic bottle	
348708	5 kg	Plastic jar	
348702	10 kg	Carton drum	
348703	25 kg	Plastic bucket	

**Lanolin anhydrous**

Grasso di lana anidro • Lanoline anhydre • Grasa de lana anhidra

Synonym:  
Wool fatCAS: 8006-54-0  
EEC-N: 232-348-6**Lanolin anhydrous > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.****ERBApharm**

Description .....	Soft yellow mass	Oxydable hydrosol.matt.....	Conform Ph.Eur.	Saponification value.....	90 ÷ 105	Paraffins.....	≤1.0 %
Melt prod. description.....	Clear liquid	Water absorption capac.....	Conform Ph.Eur.	Loss on drying .....	≤0.5 %	Residui pesticidi .....	≤ 1 ppm
Identification .....	Positive	Acid value.....	≤1.0	Sulphated ash.....	≤0.15 %		
Acids,alkal.water-solub.....	Conform Ph.Eur.	Peroxide value.....	≤20	Chloride.....	≤150 ppm		

Code	Size	Packaging	Notes
347357	1 kg	Box	
347359	5 kg	Plastic jar	
347354	50 kg	Metal drum	

**Lanthanum standard solution**

Lantano standard soluzione • Lanthane solution standard • Lantano, solución patrón

**Classification transport**ONU: 3267  
Transport Hazard class: 8  
Packing group III**Lanthanum standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505692	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505695	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505693	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lanthanum standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503681	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503685	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503683	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503687	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lanthanum standard solution > RS - Standard solution for AAS****RS**


Code	Size	Packaging	Notes
507744	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507509	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Lanthanum chloride 25 g/L solution** Synonym:  
Lanthanum(III) chloride  
Lanthanum trichloride

Lantano cloruro 25 g/L soluzione • Lanthane chlorure 25g/L • Lantano cloruro solución 25 g/l

LaCl<sub>3</sub>  
Molecular Weight: 245,27  
CAS: 10099-58-8

 **Danger**  
H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Lanthanum chloride 25 g/L solution > RS - Ionisation standard solution for AAS**


RS

Code	Size	Packaging	Notes
504537	500 ml	Plastic bottle	Matrix : Hydrochloric acid

**Lanthanum nitrate hexahydrate** Synonym:  
Nitric acid, lanthanum (III) salt, hexahydrate

Lantano nitrato esaidrato • Lanthane nitrate hexahydraté • Lantano nitrato hexahidratado

La(NO<sub>3</sub>)<sub>3</sub>·6H<sub>2</sub>O  
Molecular Weight: 433,02  
CAS: 10277-43-7  
EEC-N: 233-238-0

 **Warning**  
H315-H319  
P264-P280-P305+P351+P338-P332+P313-P337+P313-P362

**Lanthanum nitrate hexahydrate > RPE - For analysis**

RPE

Description ..... White crystalline powder    Identification ..... Positive    Fe ..... ≤ 10 ppm    Assay ..... ≥ 98.0 %

Code	Size	Packaging	Notes
457502	25 g	Glass bottle	
457506	250 g	Plastic bottle	

**Lanthanum nitrate 0.1 mol/l**

Lantano nitrato 0.1 mol/l • Lanthane nitrate 0.1 mol/l • Lantano nitrato 0.1 mol/l

**Lanthanum nitrate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613010100	1 l	Plastic bottle	Ref Ph.Eur 3010100

**Lanthanum nitrate solution 50 g/l**

Lantano nitrato soluzione 50 g/l • Lanthane nitrate 50 g/l • Lantano nitrato solución 50 g/l

**Lanthanum nitrate solution 50 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611048001	1 l	Plastic bottle	Ref Ph.Eur 1048001

**Lanthanum oxide**

Lantano ossido • Lanthane oxyde • Lantano oxido

La<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 325,81  
CAS: 1312-81-8  
EEC-N: 215-200-5

**Lanthanum oxide > RPE - For analysis**

RPE

Description ..... White or pink powder    Loss on ignition ..... ≤1 %    Sr ..... ≤20 ppm  
Identification ..... Positive    Ca ..... ≤100 ppm    Assay (complexometric) ..... ≥99.0 %

Code	Size	Packaging	Notes
457511	100 g	Glass bottle	

**Lauryltrimethylammonium bromide ▶ Dodecyltrimethylammonium bromide**

**Lead standard solution**

Piombo standard soluzione • Plomb solution standard • Plomo, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Warning**H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a**Lead standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615001700	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001700
615001702	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001702
615001703	100 ml	Plastic bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5001703
615001704	100 ml	Plastic bottle	A 1 ppm solution : to dilute according to Ref Ph.Eur 5001704
615001705	100 ml	Plastic bottle	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5001705
615001706	100 ml	Plastic bottle	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5001706
615001709	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001701
615001701	500 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001700

**Lead standard solution > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
504901	100 ml	Plastic bottle	conc. 100 ppm
504902	500 ml	Plastic bottle	conc. 100 ppm

**Lead standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505767	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505768	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505769	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lead standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503801	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503805	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503803	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503807	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lead standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497595	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid
E497591	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lead standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
468791		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Lead standard solution &gt; RS - Quality control standard solution for AAS (graphite furnace)

RS

Code	Size	Packaging	Notes
504364	50 ml	Plastic bottle	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid



## Lead

Piombo • Plomb • Plomo

Pb  
Molecular Weight: 207,2  
CAS: 7439-92-1  
EEC-N: 231-100-4



## Danger

H302-H332-H360-H373-HA26  
P264-P271-P280-P304+P340-P308+P313-P314

## Lead &gt; RPE - For analysis

RPE

Description ..... Grey foil Identification ..... Positive Assay ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
468866	500 g	Box	

~ 0,7 mm thickness



## Lead (II) acetate basic

Piombo acetato basico • Plomb (II) acétate basique • Plomo (II) acetato básico

Synonym:

Lead subacetate

$C_4H_6O_4Pb_2(OH)_2$   
Molecular Weight: 566,48  
CAS: 1335-32-6  
EEC-N: 215-630-3

## Classification transport

ONU: 1616  
Transport Hazard class: 6.1  
Packing group III



## Danger

H351-H360Df-H373-H410-HA26  
P273-P280-P260-P308+P313-P314-P391

## Lead (II) acetate basic &gt; RPE - For analysis - ACS

RPE

Description ..... White powder Insol. in dil. acetic ac. .... ≤200 ppm Cu ..... ≤20 ppm Assay (alkalimetric) ..... ≥33.0 % PbO  
Identification ..... Positive Chloride ..... ≤30 ppm Fe ..... ≤20 ppm  
Loss on drying ..... ≤1.5 % Nitrate-nitrite (NO3) ..... ≤30 ppm K ..... ≤200 ppm  
Water-insoluble matter ..... ≤1.0 % Ca ..... ≤100 ppm Na ..... ≤500 ppm

Code	Size	Packaging	Notes
468984	100 g	Plastic bottle	
468985	250 g	Plastic bottle	
468987	1 kg	Plastic bottle	



## Lead (II) acetate basic solution

Piombo acetato basico soluzione • Plomb (II) acétate basique solution • Plomo acetato básico solución

Synonym:

Lead subacetate

$Pb(CH_3COO)_2Pb(OH)_2$   
CAS: 1335-32-6

## Classification transport

ONU: 1616  
Transport Hazard class: 6.1  
Packing group III



## Danger

H351-H360Df-H373-H400-H410-HA26  
P273-P280-P260-P308+P313-P314-P391

## Lead (II) acetate basic solution &gt; RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048400	100 ml	Glass bottle	Ref Ph.Eur 1048400



## Lead (II) acetate solution 95 g/l

Piombo acetato soluzione 95 g/l • Plomb acétate solution 95g/l • Plomo (II) acetato solución 95 g/l

Synonym:

Lead subacetate

## Classification transport

ONU: 3082  
Transport Hazard class: 9  
Packing group III



## Danger

H360Df-H373-H411-HEU201-HA26  
P273-P280-P260-P308+P313-P314-P391

## Lead (II) acetate solution 95 g/l &gt; RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611048103	100 ml	Plastic bottle	Ref Ph.Eur 1048103

**Lead (II) acetate cotton**

Cotone piombo (II) acetato • Coton à l'acétate de plomb • Plomo acetato algodón

**Classification transport**ONU: 3082  
Transport Hazard class: 9  
Packing group III**Danger**H360-H411-HEU201-HA26  
P273-P280-P201-P202-P308+P313-P391**Lead (II) acetate cotton > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611048101	10 g	Glass bottle	Ref Ph.Eur 1048101

**Lead (II) acetate paper**

Cartina piombo (II) acetato • Papier à l'acétate de plomb • Plomo acetato papel

**Classification transport**ONU: 3082  
Transport Hazard class: 9  
Packing group III**Danger**H360-H411-HEU201-HA26  
P273-P280-P201-P202-P308+P313-P391**Lead (II) acetate paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611048102	50 pc	Glass bottle	Ref Ph.Eur 1048102

**Lead (II) acetate paper > RS - For pHmetry****RS**

Code	Size	Packaging	Notes
435180000	1 roll	Dispenser	Paper lead acetate, Color change : White --> Brown-Black

**Lead (II) acetate trihydrate**

Piombo di-acetato triidrato • Plomb (II) acétate trihydrate • Plomo (II) acetato 3-hidratado

 $C_4H_6O_4Pb \cdot 3H_2O$   
Molecular Weight: 379,33  
CAS: 6080-56-4**Classification transport**ONU: 1616  
Transport Hazard class: 6.1  
Packing group III**Danger**H302-H332-H360Df-H373-H410-HEU201-HA26  
P264-P273-P271-P280-P304+P340-P308+P313**Lead (II) acetate trihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	White crystals	ppm	Cu .....	≤20 ppm	Ca .....	≤50 ppm
Identification .....	Positive	Chloride .....	Fe .....	≤10 ppm	K .....	≤50 ppm
Diluted acetic acid insoluble matter ...	≤100	Nitrate-nitrite (NO3) .....	Assay (complexometric) .....	99.0 ÷ 103.0 %	Na .....	≤100 ppm

Code	Size	Packaging	Notes
468934	100 g	Plastic bottle	
468935	250 g	Plastic bottle	
468937	1 kg	Plastic bottle	
468932	25 kg	Drum	

**Lead (II) nitrate**

Piombo nitrato • Plomb (II) nitrate • Plomo (II) nitrato

Synonym:  
Lead dinitratePb(NO<sub>3</sub>)<sub>2</sub>  
Molecular Weight: 331,21  
CAS: 10099-74-8  
EEC-N: 233-245-9**Classification transport**  
ONU: 1469  
Transport Hazard class: 5.1  
Packing group II**Danger**  
H302-H332-H360Df-H373-H410-HEU201-HA26  
P264-P273-P271-P280-P304+P340-P308+P313**Lead (II) nitrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**Description ..... White crystals  
Identification ..... Positive  
Dil. HNO<sub>3</sub>-insol. matter ..... ≤ 50 ppm  
Chloride ..... ≤ 10 ppm  
Ca ..... ≤ 50 ppm  
Cu ..... ≤ 20 ppm  
Fe ..... ≤ 10 ppm  
Assay (complexometric) ..... ≥ 99.0 %  
K ..... ≤ 50 ppm  
Na ..... ≤ 0.02 %

Code	Size	Packaging	Notes
469355	100 g	Plastic bottle	
469356	500 g	Plastic bottle	
469357	1 kg	Plastic bottle	
469353	25 kg	Plastic bucket	

**Lead (II) nitrate > RE - Pure****RE**Description ..... White crystals  
Identification ..... Positive  
Dil. HNO<sub>3</sub>-insol. matter ..... ≤ 0.005 %  
Chloride ..... ≤ 50 ppm  
pH solution 7.5% ..... 3 ÷ 4  
Cu ..... ≤ 20 ppm  
Fe ..... ≤ 10 ppm  
Assay (complexometric) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
358007	1 kg	Plastic bottle	
358008	5 kg	Plastic jar	

**Lead (II) nitrate 0.05 mol/l**

Piombo nitrato 0.05 mol/l • Plomb (II) nitrate 0.05 mol/l • Plomo (II) nitrato 0.05 mol/l

Synonym:  
Lead dinitrate**Danger**  
H360D-H373-H412-HEU201-HA26  
P273-P280-P260-P201-P308+P313-P314**Lead (II) nitrate 0.05 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613009700	100 ml	Plastic bottle	Ref Ph.Eur 3009700

**Lead (II) nitrate 0.1 mol/l**

Piombo nitrato 0.1 mol/l • Plomb (II) nitrate 0.1 mol/l • Plomo (II) nitrato 0.1 mol/l

Synonym:  
Lead dinitrate**Danger**  
H360Df-H373-H411-HEU201-HA26  
P273-P280-P260-P308+P313-P314-P391**Lead (II) nitrate 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613003101	500 ml	Plastic bottle	Ref Ph.Eur 3003100
613003100	1 l	Plastic bottle	Ref Ph.Eur 3003100

**Lead (II) nitrate solution 33 g/l**

Piombo nitrato soluzione 33 g/l • Plomb (II) nitrate solution 33g/l • Plomo (II) nitrato solución 33 g/l

Synonym:  
Lead dinitrate**Classification transport**  
ONU: 1935  
Transport Hazard class: 6.1  
Packing group III**Danger**  
H360Df-H373-H411-HEU201-HA26  
P273-P280-P260-P308+P313-P314-P391**Lead (II) nitrate solution 33 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611048301	1 l	Plastic bottle	Ref Ph.Eur 1048301

**Lead (II) oxide**

Piombo ossido • Plomb (II) oxyde • Plomo (II) óxido

PbO  
Molecular Weight: 223,2  
CAS: 1317-36-8  
EEC-N: 215-267-0

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III

**Danger**

H302-H332-H360Df-H373-H410-HEU201-HA26  
P264-P273-P271-P280-P304+P340-P308+P313

**Lead (II) oxide > RPE - For analysis****RPE**

Description ..... Polvere gialla o arancio Insoluble in Acetic ac. .... ≤ 200 ppm Ca ..... ≤ 50 ppm K ..... ≤ 50 ppm  
Identification ..... Positive Nitrate ..... ≤ 100 ppm Cu ..... ≤ 50 ppm Na ..... ≤ 0.02 %  
Chloride ..... ≤ 20 ppm Ag ..... ≤ 5 ppm Fe ..... ≤ 20 ppm Assay (complexometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
469404	100 g	Glass bottle	

**Lead (II) oxide > RE - Pure****RE**

Description ..... Yellow powder Identification ..... Positive Assay ..... ≥ 99.8 %

Code	Size	Packaging	Notes
358257	1 kg	Plastic bottle	
358259	5 kg	Plastic jar	
358252	25 kg	Drum	

**Lead (IV) oxide**

Piombo biossido • Plomb (IV) oxyde • Plomo (IV) óxido

Synonym:  
Lead peroxide

PbO<sub>2</sub>  
Molecular Weight: 239,2  
CAS: 1309-60-0  
EEC-N: 215-174-5

**Classification transport**  
ONU: 1872  
Transport Hazard class: 5.1  
Packing group III

**Danger**

H302-H332-H360Df-H373-H410-HEU201-HA26  
P264-P273-P271-P280-P304+P340-P308+P313

**Lead (IV) oxide > RPE - For analysis****RPE**

Description ..... Blackish powder Sulphate ..... ≤ 0.1 % Loss on drying ..... ≤ 0.5 %  
Identification ..... Positive HNO<sub>3</sub>-insoluble matter ..... ≤ 0.05 % Mn ..... ≤ 20 ppm  
Chloride ..... ≤ 200 ppm Substances not ppt. H<sub>2</sub>S ..... ≤ 0.05 % Assay (oxidimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
469055	250 g	Plastic bottle	
469057	1 kg	Plastic bottle	

**Lead (II) sulfate**

Piombo solfato • Plomb (II) sulfate • Plomo (II) sulfato

Synonym:  
Anglesite

PbSO<sub>4</sub>  
Molecular Weight: 303,26  
CAS: 7446-14-2  
EEC-N: 231-198-9

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III

**Danger**

H302-H332-H360Df-H373-H410-HEU201-HA26  
P264-P273-P271-P280-P304+P340-P308+P313

**Lead (II) sulfate > RPE - For analysis****RPE**

Description ..... White powder Chloride ..... ≤ 20 ppm Fe ..... ≤ 20 ppm Assay (complexometric) ..... ≥ 99.0 %  
Identification ..... Positive Insol. in Ammonium acet. .... ≤ 500 ppm K ..... ≤ 500 ppm  
Loss on ignition ..... ≤ 0.5 % Nitrate ..... Conform Na ..... ≤ 0.1 %

Code	Size	Packaging	Notes
469505	250 g	Plastic bottle	
469506	1 kg	Plastic bottle	

	<b>Lecithin of soya</b> Lecitina di soia • Lécithine de soja • Lecitina de soja	Synonym: L- $\alpha$ -Phosphatidylcholine 1,2-Diacyl-sn-glycero-3-phosphocholine
	Molecular Weight: 750 CAS: 8002-43-5 EEC-N: 232-307-2	

### Lecithin of soya > RE - Pure

RE

Description .....	Powder	Acidity index .....	< 35 mg KOH/g	Assay (phospholipids as acetone insolubl.....)	> 97 %
Identification .....	Positive	Peroxide value.....	< 5 meq O2/Kg	Heavy metals (Pb).....	≤ 2 ppm
Water .....	< 1 %	Insolubles in toluene.....	< 0.3 %	Sulphated ash.....	≤ 12 %

Code	Size	Packaging	Notes
348754	1 kg	Plastic bottle	

	<b>L(+)-Leucine</b> L(+)-Leucina • L(+)-Leucine • L(+)-Leucina	Synonym: (S)-2-Amino-4-methylpentanoic acid
	(CH <sub>3</sub> ) <sub>2</sub> CHCH <sub>2</sub> CHNH <sub>2</sub> COOH Molecular Weight: 131,18 CAS: 61-90-5 EEC-N: 200-522-0	

### L(+)-Leucine > RPE - For analysis

RPE

Description .....	White crystals	Ammonium .....	≤50 ppm	Residue on ignition .....	≤500 ppm	Fe .....	≤10 ppm
Identification .....	Positive	Chloride .....	≤250 ppm	Tyrosine.....	≤200 ppm	Assay (non-aqueous medium).....	≥99 %
Specific optical rotation... +15.1 ÷ +16.1 °		Total phosphorus.....	≤10 ppm	Tryptophan.....	≤300 ppm		
Loss on drying .....	≤0.1 %	Heavy metals (Pb).....	≤10 ppm	Total sulphur .....	≤250 ppm		

Code	Size	Packaging	Notes
457928	5 g	Glass bottle	

	<b>Light green</b> Verde luce SF • Vert lumière SF • Verde claro SF	Synonym: Acid Green 5
	C <sub>37</sub> H <sub>34</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>9</sub> S <sub>3</sub> Molecular Weight: 792,86 CAS: 5141-20-8 EEC-N: 225-906-5	 <b>Warning</b> H312-H332 P271-P280-P261-P304+P340-P312a-P302+P352a

### Light green > RS - For microscopy - C.I. 42095

RS

Description .....	Dark violet powder	Maximum absorption .....	630 ÷ 632 nm	Assay .....	≥ 95 %
Identification .....	Positive	Water solubility.....	Conform		

Code	Size	Packaging	Notes
491371	10 g	Glass bottle	
491372	25 g	Glass bottle	

Dye for botanical-bacteriology-cytology

	<b>Lynalol</b> Linalolo • Linalol • Linalol	Synonym: (±)-3,7-Dimethyl-1,6-octadien-3-ol (+/-)-3,7-Dimethyl-3-hydroxy-1,6-octadiene
	C <sub>10</sub> H <sub>18</sub> O Molecular Weight: 154,25 CAS: 78-70-6 EEC-N: 201-134-4	 <b>Warning</b> H315-H319-H335 P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

### Lynalol > RE - Pure

RE

Appearance .....	Colourless liquid	Refractive index at 20°C.....	1.461 - 1.465	Colour .....	≤ 15 Hazen
Identification .....	Conform	Density d20/4 .....	0.858 - 0.867	Assay (GC).....	≥ 97 %

Code	Size	Packaging	Notes
P9550276	250 ml	Glass bottle	



**Lithium standard solution**

Litio standard soluzione • Lithium solution standard • Litio, solución patrón

**Danger**

H314

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Lithium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505702	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505705	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505703	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lithium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503691	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503695	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503693	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503697	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lithium standard solution > RS - Standard solution for AAS****RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507745	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497525	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507486	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497521	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lithium standard solution > RS - NORMEX - Concentrated solution for AAS****RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
458211		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package****Lithium standard solution > RS - Standard solution for ion chromatography****RS**

Code	Size	Packaging	Notes
503281	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503283	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Lithium carbonate

Litio carbonato • Lithium carbonate • Litio carbonato

Synonym:  
Carbolithium  
Carbonic acid lithium salt

Li<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 73,89  
CAS: 554-13-2  
EEC-N: 209-062-5



### Warning

H302-H319  
P264-P280i-P305+P351+P338-P330-P337+P313-  
P301+P312a

### Lithium carbonate > RPE - For analysis - ACS

**RPE**

Description ..... White powder Diluted HCl-ins. matter ..... ≤ 100 ppm Total sulphur ..... ≤ 0.2 % K ..... ≤ 100 ppm  
Identification ..... Positive Heavy metals (Pb) ..... ≤ 20 ppm Ca ..... ≤ 100 ppm Assay (alkalimetric) ..... ≥ 99.0 %  
Chloride ..... ≤ 50 ppm Nitrate ..... ≤ 5 ppm Fe ..... ≤ 20 ppm Na ..... ≤ 0.1 %

Code	Size	Packaging	Notes
458204	100 g	Plastic bottle	
458207	1 kg	Plastic bottle	

### Lithium carbonate > RE - Pure

**RE**

Description ..... White powder Chloride ..... ≤ 300 ppm Sulphate ..... ≤ 0.2 % Assay (non-aqueous medium) ..... ≥ 98 %  
Identification ..... Positive Diluted HCl-ins. matter ..... ≤ 500 ppm Fe ..... ≤ 30 ppm

Code	Size	Packaging	Notes
348955	250 g	Plastic bottle	
348957	1 kg	Plastic bottle	



## Lithium chloride

Litio cloruro • Lithium chlorure • Litio cloruro

LiCl  
Molecular Weight: 42,39  
CAS: 7447-41-8  
EEC-N: 231-212-3



### Warning

H302-H315-H319  
P264-P280g-P305+P351+P338-P330-P332+P313-  
P337+P313

### Lithium chloride > RPE - For analysis - ACS

**RPE**

Description ..... White crystalline powder Water-insoluble matter ..... ≤ 100 ppm Ba ..... ≤ 30 ppm Assay (argentimetric) ..... ≥ 99 %  
Identification ..... Positive Heavy metals (Pb) ..... ≤ 20 ppm Ca ..... ≤ 100 ppm Na ..... ≤ 0.2 %  
Alcalinity ..... ≤ 0.008 meq/g Nitrate ..... ≤ 10 ppm Fe ..... ≤ 10 ppm  
Loss on drying ..... ≤ 1.0 % Sulphate ..... ≤ 100 ppm K ..... ≤ 100 ppm

Code	Size	Packaging	Notes
458254	100 g	Glass bottle	
458256	500 g	Plastic bottle	
458257	1 kg	Plastic bottle	

### Lithium chloride > RE - Pure

**RE**

Description ..... White crystalline powder K + Na ..... ≤ 0.50 % Sulphate ..... ≤ 500 ppm Assay (argentimetric) ..... ≥ 99 %  
Identification ..... Positive Umidità (H<sub>2</sub>O) ..... ≤ 0.8 % Fe ..... ≤ 20 ppm

Code	Size	Packaging	Notes
458271	250 g	Plastic bottle	
458272	1 kg	Plastic bottle	
458275	5 kg	Plastic jar	
458273	25 kg	Plastic bucket	

**Lithium hydride**

Litio idruro • Lithium hydrure • Litio hidruro

LiH

Molecular Weight: 7,95  
CAS: 7580-67-8  
EEC-N: 231-484-3**Classification transport**ONU: 1414  
Transport Hazard class: 4.3  
Packing group I**Danger**H260-H314  
P223-P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Lithium hydride > RE - Pure****RE**

Description ..... Polvere bianco grigiast Identification ..... Positive Assay (gas volumetric) ..... &gt;95 %

Code	Size	Packaging	Notes
458303	50 g	Glass bottle	

**Lithium hydroxide anhydrous**

Litio idrossido anidro • Lithium hydroxyde anhydre • Litio hidróxido anhidro

LiOH

Molecular Weight: 23,95  
CAS: 1310-65-2  
EEC-N: 215-183-4**Classification transport**ONU: 2680  
Transport Hazard class: 8  
Packing group II**Danger**H331-H314  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Lithium hydroxide anhydrous > RPE - For analysis****RPE**Description ..... White powder Chloride ..... ≤200 ppm Sulphate ..... ≤500 ppm  
Identification ..... Positive K + Na ..... ≤0.1 % Fe ..... ≤20 ppm  
Carbonate ..... ≤1.5 % Heavy metals (Pb) ..... ≤20 ppm Assay ..... ≥98 % LiOH

Code	Size	Packaging	Notes
458281	250 g	Glass bottle	
458282	1 kg	Glass bottle	

**Lithium hydroxide monohydrate**

Litio idrossido monoidrato • Lithium hydroxyde monohydraté • Litio hidróxido monohidrato

LiOH.H<sub>2</sub>OMolecular Weight: 41,96  
CAS: 1310-66-3  
EEC-N: 215-183-4**Classification transport**ONU: 2680  
Transport Hazard class: 8  
Packing group II**Danger**H302-H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Lithium hydroxide monohydrate > RPE - For analysis****RPE**Description ..... White cryst. powder Chloride ..... ≤200 ppm Ca ..... ≤200 ppm Mg ..... ≤50 ppm  
Identification ..... Positive Heavy metals (Pb) ..... ≤10 ppm Fe ..... ≤30 ppm Na ..... ≤100 ppm  
Carbonate ..... ≤1 % Sulphate ..... ≤500 ppm K ..... ≤100 ppm Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
458292	1 kg	Plastic bottle	

**Lithium nitrate**

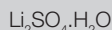
Litio nitrato • Lithium nitrate • Litio nitrato

LiNO<sub>3</sub>Molecular Weight: 68,95  
CAS: 7790-69-4  
EEC-N: 232-218-9**Classification transport**ONU: 2722  
Transport Hazard class: 5.1  
Packing group III**Danger**H272  
P221-P210a-P280a-P220-P370+P378a-P501a**Lithium nitrate > RPE - For analysis****RPE**Description ..... White crystalline powder Water ..... ≤ 1 % Chloride ..... ≤ 100 ppm Fe2O3 ..... ≤ 50 ppm  
Identification ..... Positive Alkalinity ..... ≤ 0.05 % Sulphate ..... ≤ 500 ppm Assay ..... ≥ 99.0 %

Code	Size	Packaging	Notes
458355	250 g	Plastic bottle	
458356	1 kg	Plastic bottle	

**Lithium sulfate monohydrate**

Litio solfato monoidrato • Lithium sulfat monohydraté • Litio sulfato monohidrato



Molecular Weight: 127,95

CAS: 10102-25-7

EEC-N: 233-802-4

**Warning**

H302

P264-P270-P330-P301+P312a-P501a

**Lithium sulfate monohydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White crystalline powder    Water-insoluble matter ..... ≤100 ppm    Heavy metals (Pb) ..... ≤10 ppm    Na ..... ≤500 ppm  
 Identification ..... Positive    Chloride ..... ≤20 ppm    Fe ..... ≤10 ppm    Assay (acidimetric) ..... ≥99.0 % s.s.  
 Loss on drying 150° C ..... 13.0 ÷ 15.0    Nitrate ..... ≤10 ppm    K ..... ≤500 ppm

Code	Size	Packaging	Notes
458404	100 g	Plastic bottle	
458405	1 kg	Plastic bottle	

**Lithium tetraborate anhydrous**

Litio tetraborato anidro • Lithium tétraborate anhydre • Litio tetraborato anhidro



Molecular Weight: 169,12

CAS: 12007-60-2

EEC-N: 234-514-3

**Warning**

H315-H319-H335

P264-P271-P280-P304+P340-P305+P351+P338-P312a

**Lithium tetraborate anhydrous > RE - Pure****RE**

Description ..... White powder    Identification ..... Positive    Assay ..... ≥ 98 %

Code	Size	Packaging	Notes
458163	1 kg	Plastic bottle	
458164	5 kg	Plastic jar	

**Litmus**

Tornasole • Tournesol • Tornasol

CAS: 1393-92-6

EEC-N: 215-739-6

**Litmus > RPE - For analysis****RPE**

Description ..... Dark blue granules    Identification ..... Positive    Colour change ..... rosso - blu    pH range ..... 4.8 ÷ 8.3

Code	Size	Packaging	Notes
489054	100 g	Plastic bottle	

**Acid-base indicator (pH 4.5 ÷ 8.3)****Litmus paper**

Cartine tornasole • Papier tournesol • Papel tornasol

**Classification transport**

ONU: 2025

**Litmus paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611049301	50	Glass bottle	Ref Ph.Eur 1049301

## Litmus paper &gt; RS - For pHmetry

RS

Code	Size	Packaging	Notes
435260000	1 roll	Box	Blue litmus paper, Color change : blue --> red, change pH 8.0 - 5.0
435300000	1 roll	Box	Neutral litmus paper, Color change : red <-- purple --> Blue, Change pH 5.0 - 8.0
435340000	1 roll	Box	Red litmus paper, Color change : red --> blue, Change pH 5.0 - 8.0

Roll dispenser 5 m by 7 mm



## Lugol concentrated solution

Lugol "forte" soluzione concentrata • Réactif de Lugol solution concentrée • Lugol reactivo solución concentrada



## Danger

H334-H317-H373

P280-P284-P260-P304+P340-P342+P311a-P314

## Lugol concentrated solution &gt; RS - For microscopy

RS

Description ..... Liquido limpido rosso bruno Identification ..... Positive Assay as iodine (oxidimetric) ..... 4.9 ÷ 5.1 % (p/v)

Code	Size	Packaging	Notes
458741	1 l	Glass bottle	



## Lugol solution for Gram-Hucker kit

Lugol soluzione in acqua per kit Gram-Hucker • Réactif de Lugol solution pour kit de Gram-Hucker • Lugol solución para kit Gram - Hucker



## Danger

H315-H318-H334-H317-H412

P264-P273-P280-P304+P340-P305+P351+P338-P342+P311a

## Lugol solution for Gram-Hucker kit &gt; RS - For bacteriology

RS

Description ..... Brown clear liquid Identification ..... Positive Assay ..... 0.85 ÷ 0.95 %p/p (2)

Code	Size	Packaging	Notes
458751	250 ml	Glass bottle	

CE IVD



## Lugol's Reagent Iodine-Iodide Solution

Lugol reattivo soluzione iodo-iodurata • Réactif de Lugol solution • Lugol reactivo solución yodo-yodurata



## Danger

H334-H317-H373

P280-P284-P260-P304+P340-P342+P311a-P314

## Lugol's Reagent Iodine-Iodide Solution &gt; RS - For colposcopy

RS

Description ..... Brown clear liquid Identification ..... Positive Assay as iodine (oxidimetric) ..... 1.9 ÷ 2.1 % p/v

Code	Size	Packaging	Notes
458762	250 ml	Glass bottle	
E458761	6 x 250 ml	Glass bottle	
458763	1 l	Glass bottle	
E458764	6 x 1 l	Glass bottle	

Dye for bacteriology

**Luminol**

Luminol • Luminol • Luminol

Synonym:

5-Amino-2,3-dihydro-1,4-phthalazinedione

 $C_8H_7N_3O_2$ 

Molecular Weight: 177,17

CAS: 521-31-3

EEC-N: 208-309-4

**Warning**

H302-H332

P264-P271-P261-P304+P340-P330-P301+P312a

**Luminol > RPE - For analysis****RPE**

Description ..... Polvere verde-giallog. Identification ..... Positive Assay (acidimetric) ..... 97.5 ÷ 102.5 %

Code	Size	Packaging	Notes
458772	25 g	Glass bottle	

**For chemiluminescence****Lutetium standard solution**

Lutezio standard soluzione • Lutéthium solution standard • Lutecio, solución patrón

**Classification transport**

ONU: 1760

Transport Hazard class: 8

Packing group III

**Lutetium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505707	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505708	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505709	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Lutetium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503611	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503615	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503613	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503617	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****L(+)-Lysine monohydrochloride**

L(+)-Lisina monoclorigrato • L(+)-Lysine monochlorhydrate • L(+)-Lisina monoclorigrato

Synonym:

(S)-2,6-Diaminohexanoic acid monohydrochloride

 $C_6H_{14}N_2O_2 \cdot HCl$ 

Molecular Weight: 182,65

CAS: 657-27-2

EEC-N: 211-519-9

**L(+)-Lysine monohydrochloride > RPE - For analysis****RPE**

Description ..... White powder Ammonium ..... ≤10 ppm Residue on ignition ..... ≤500 ppm Assay (argentimetric) ..... ≥99 %  
 Identification ..... Positive Total phosphorus ..... ≤5 ppm Total sulphur ..... ≤30 ppm  
 Specific optical rotation... +19.5 ÷ +21.5 ° Water-insoluble matter ..... ≤50 ppm Fe ..... ≤10 ppm  
 Loss on drying ..... ≤0.3 % Heavy metals (Pb) ..... ≤10 ppm Assay (ex nitrogen) ..... ≥99 %

Code	Size	Packaging	Notes
458122	25 g	Glass bottle	
458124	100 g	Plastic bottle	
458121	5 kg	Plastic jar	

**Magnesium standard solution**

Magnesio standard soluzione • Magnésium solution standard • Magnesio, solución patrón

**Magnesium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615001801	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001801
615001802	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001802
615001803	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5001803
615001809	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5001800

**Magnesium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505712	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505715	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505713	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Magnesium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503711	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503715	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503713	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503717	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Magnesium standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497535	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503718	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503719	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507039	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
E497531	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Magnesium standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
458891		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Magnesium standard solution > RS - Standard solution for ion chromatography**

RS

Code	Size	Packaging	Notes
503291	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503293	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503390	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Magnesium, powder

Magnesio, polvere • Magnésium, poudre • Magnesio, polvo

Mg  
Molecular Weight: 24,31  
CAS: 7439-95-4  
EEC-N: 231-104-6

**Classification transport**  
ONU: 1869  
Transport Hazard class: 4.1  
Packing group III



**Danger**  
H228-H251-H261  
P210-P231+P232-P235+P410-P422a

### Magnesium, powder > RPE - For analysis

**RPE**

Description ..... Grey powder Identification ..... Positive Titolo (AAS/ICP) ..... ≥ 99 % (Mg)

Code	Size	Packaging	Notes
459066	500 g	Bottle	



## Magnesium, ribbon

Magnesio, nastro • Magnesium, rubans • Magnesio, tiras

Mg  
Molecular Weight: 24,31  
CAS: 7439-95-4  
EEC-N: 231-104-6

**Classification transport**  
ONU: 1869  
Transport Hazard class: 4.1  
Packing group III



**Danger**  
H228-H251-H261  
P210-P231+P232-P235+P410-P422a

### Magnesium, ribbon > RPE - For analysis

**RPE**

Description ..... Ribbon Identification ..... Positive Assay ..... ≥ 99 %

Code	Size	Packaging	Notes
459044	100 g	Carton box	

Size ~ 0.2 x 3 mm



## Magnesium, turnings

Magnesio, tornitura • Magnésium, tournures • Magnesio, virutas

Mg  
Molecular Weight: 24,31  
CAS: 7439-95-4  
EEC-N: 231-104-6

**Classification transport**  
ONU: 1869  
Transport Hazard class: 4.1  
Packing group III



**Danger**  
H228-H251-H261  
P210-P231+P232-P235+P410-P422a

### Magnesium, turnings > RPE - For analysis

**RPE**

Description ..... Silvery turnings Identification ..... Positive Other metals ..... ≤ 0.10 % Assay ..... ≥ 99.80 % (Mg)

Code	Size	Packaging	Notes
459085	250 g	Metallic can	

According to Grignard



## Magnesium acetate tetrahydrate

Magnesio acetato tetraidrato • Magnésium acétate tétrahydraté • Magnesio acetato tetrahidratado

Synonym:  
Acetic acid magnesium salt

Mg(CH<sub>3</sub>COO)<sub>2</sub>·4H<sub>2</sub>O  
Molecular Weight: 214,46  
CAS: 16674-78-5  
EEC-N: 205-554-9

### Magnesium acetate tetrahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... White crystalline powder Sulphate ..... ≤ 50 ppm Fe ..... ≤ 5 ppm Sr ..... ≤ 50 ppm  
Identification ..... Positive Heavy metals (Pb) ..... ≤ 5 ppm K ..... ≤ 50 ppm Assay (complexometric) ..... 98.0 ÷ 102.0 %  
Water-insoluble matter ..... ≤ 50 ppm Ba ..... ≤ 10 ppm Mn ..... ≤ 10 ppm  
Chloride ..... ≤ 10 ppm Ca ..... ≤ 100 ppm Na ..... ≤ 50 ppm

Code	Size	Packaging	Notes
459135	250 g	Plastic bottle	
459137	1 kg	Plastic bottle	
459131	25 kg	Drum	



**Magnesium carbonate basic**

Magnesio carbonato basico • Magnésium carbonate basique • Magnesio carbonato básico

Synonym:

Magnesium hydroxide carbonate

 $(\text{MgCO}_3)_4 \cdot \text{Mg}(\text{OH})_2 \cdot 5\text{H}_2\text{O}$ 

Molecular Weight: 467,52

CAS: 39409-82-0

EEC-N: 235-192-7

**Magnesium carbonate basic > RPE - For analysis****RPE**

Description .....	Light white powder	Chloride .....	≤300 ppm	Ca .....	≤ 0.2 %	Pb .....	≤ 0.5 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤10 ppm	Cd .....	≤ 0.5 ppm	Loss on calcination .....	55.0 - 60.0 %
Water solubility .....	≤0.5 %	Sulphate .....	≤ 0.20 %	Fe .....	≤400 ppm	Assay (complexometric) .....	40.0 ÷ 45.0 %
Insoluble in acetic acid .....	≤ 0.05 %	As .....	≤2 ppm	Hg .....	≤ 0.1 ppm	(MgO)	

Code	Size	Packaging	Notes
459285	250 g	Plastic bottle	
459287	1 kg	Plastic jar	

**Magnesium carbonate basic > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.****ERBApharm**

Description .....	White powder	Chloride .....	≤0.07 %	Acet.ac.not soluble ma. ....	≤0.05 %	Assay (Mg oxide) .....	40.0 ÷ 45.0 %
Identification .....	Positive	Heavy metals (Pb) .....	≤20 ppm	As .....	≤2 ppm		
Appearance of solution .....	Conform Ph.Eur.	Sulphate .....	≤0.3 %	Ca .....	≤0.75 %		
Apparent density .....	60 ÷ 150 g/l	Water-soluble subst. ....	≤1.0 %	Fe .....	≤0.04 %		

Code	Size	Packaging	Notes
349257	1 kg	Plastic jar	

**Light powder****Magnesium carbonate basic > ERBApharm - According to pharmacopoeia : USP****ERBApharm**

Description .....	White powder	Heavy metals (Pb) .....	≤30 ppm	As .....	≤4 ppm	Assay (Mg oxide) .....	40.0 ÷ 43.5 %
Identification .....	Positive	Soluble salts .....	≤1.0 %	Ca .....	≤0.45 %	Escherichia coli .....	Absent
Apparent density .....	400 ÷ 500 g/l	Acid not soluble matter .....	≤0.05 %	Fe .....	≤0.02 %		

Code	Size	Packaging	Notes
349279	5 kg	Plastic jar	

**Heavy powder****Magnesium chloride hexahydrate**

Magnesio cloruro esaidrato • Magnésium chlorure hexahydraté • Magnesio cloruro hexahidrató

 $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ 

Molecular Weight: 203,31

CAS: 7791-18-6

EEC-N: 232-094-6

**Magnesium chloride hexahydrate > RPE - For analysis - ACS - ISO****RPE**

Description .....	White crystals	Phosphate .....	≤5 ppm	Ba .....	≤50 ppm	Mn .....	≤5 ppm
Identification .....	Positive	Nitrate .....	≤10 ppm	Ca .....	≤100 ppm	Na .....	≤50 ppm
Water-insoluble matter .....	≤50 ppm	Sulphate .....	≤20 ppm	Fe .....	≤5 ppm	Sr .....	≤50 ppm
Ammonium .....	≤20 ppm	Heavy metals (Pb) .....	≤5 ppm	K .....	≤50 ppm	Assay (complexometric) .....	99.0 ÷ 102.0 %

Code	Size	Packaging	Notes
459336	100 g	Plastic bottle	
459337	1 kg	Plastic bottle	
459331	5 kg	Plastic jar	
459332	25 kg	Plastic bucket	
459334	50 kg	Fibre drum	

## Magnesium chloride hexahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-

ERBApharm

BP

Description	Colourless hygroscopic crystals	Ba	.....	Conform USP-NF	Sulphate	.....	≤50 ppm	Assay (complexometric)	.....	98.0 ÷ 101.0 %
Identification B	.....	K	.....	Conform USP-NF	Not soluble matter	.....	≤50 ppm	Origin (BSE/TSE)	.....	Synthesis
Identification C	.....	pH solution 5%	.....	4.5 ÷ 7.0	Al	.....	≤1 ppm	Residual solvents (Current ICH)	.....	Conform
Identification (I.R.)	.....	Water (K.F.)	.....	51.0 ÷ 55.0 %	As	.....	≤2 ppm			
Appearance of solution	.....	Heavy metals (Pb)	.....	≤10 ppm	Ca	.....	≤100 ppm			
Acidity or alkalinity	.....	Bromide	.....	≤500 ppm	Fe	.....	≤10 ppm			

Code	Size	Packaging	Notes
349357	1 kg	Plastic bottle	
349359	5 kg	Plastic jar	
349355	25 kg	Drum	

## Magnesium chloride hexahydrate > RE - Pure

RE

Description	.....	White crystalline powder	As	.....	≤ 2 ppm	Cu	.....	≤ 10 ppm	Pb	.....	≤ 10 ppm
Identification	.....	Positive	Al	.....	≤ 1 ppm	Fe	.....	≤ 5 ppm	Zn	.....	≤ 10 ppm
Ammonium	.....	≤ 50 ppm	Ba	.....	≤ 20 ppm	K	.....	≤ 3000 ppm	Assay (complexometric)	.....	98.5 ÷ 101.5 %
Sulphate	.....	≤ 100 ppm	Ca	.....	≤ 1000 ppm	Na	.....	≤ 5000 ppm			

Code	Size	Packaging	Notes
349377	1 kg	Plastic bottle	
349372	25 kg	Plastic bucket	



## Magnesium glycerophosphate

Magnesio glicerofosfato • Magnesium glycerophosphate • Magnesio glicerofosfato

Synonym:

*DL-alpha-glycerol phosphate magnesium salt hydrate*

$C_3H_7O_2PO_4Mg$   
Molecular Weight: 194,36  
CAS: 927-20-8  
EEC-N: 231-149-3

## Magnesium glycerophosphate > RE - Pure

RE

Description	.....	White crystalline powder	Residue on calcination	.....	47 ÷ 52 %	Heavy metals (Pb)	.....	≤ 10 ppm	Assay	.....	≥ 98 %
Identification	.....	Positive	Glycerol-Alc.sol.impur.	.....	≤ 2 %	As	.....	≤ 4 ppm			

Code	Size	Packaging	Notes
349407	1 kg	Plastic bottle	



## Magnesium hydrogen phosphate trihydrate

Magnesio fosfato bibasico triidrato • Magnesium phosphate dibasique trihydraté • Magnesio fosfato dibásico trihidrato

Synonym:

*Magnesium phosphate dibasic trihydrate Newberyite*

$MgHPO_4 \cdot 3H_2O$   
Molecular Weight: 174,34  
CAS: 7782-75-4

## Magnesium hydrogen phosphate trihydrate > RPE - For analysis

RPE

Description	.....	White powder	HCl-insoluble matter	.....	≤500 ppm	Cu	.....	≤50 ppm	Pb	.....	≤50 ppm
Identification	.....	Positive	Sulphate	.....	≤ 60 ppm	Fe	.....	≤50 ppm	Assay (complexometric)	.....	97 ÷ 100 %
Chloride	.....	≤100 ppm	As	.....	≤1 ppm	Ni	.....	≤ 50 ppm			

Code	Size	Packaging	Notes
459437	1 kg	Plastic bottle	

## Magnesium hydroxide carbonate ► Magnesium carbonate basic

**Magnesium nitrate hexahydrate**

Magnesio nitrato esaidrato • Magnésium nitrato hexahydraté • Magnesio nitrato hexahidratado

Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 256,41  
CAS: 13446-18-9  
EEC-N: 233-826-7

**Classification transport**  
ONU: 1474  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H319  
P221-P264-P210a-P280a-P305+P351+P338-  
P337+P313

**Magnesium nitrate hexahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White crystals  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 5.0 ÷ 8.2  
Water-insoluble matter ..... ≤50 ppm  
Ammonium ..... ≤30 ppm  
Chloride ..... ≤10 ppm  
Phosphate ..... ≤5 ppm  
Sulphate ..... ≤50 ppm  
Heavy metals (Pb) ..... ≤5 ppm  
Ba ..... ≤50 ppm  
Ca ..... ≤100 ppm  
Fe ..... ≤5 ppm  
K ..... ≤50 ppm  
Mn ..... ≤5 ppm  
Na ..... ≤50 ppm  
Sr ..... ≤50 ppm  
Assay (complexometric) ..... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
459535	100 g	Plastic bottle	
459536	500 g	Plastic bottle	
459537	1 kg	Plastic bottle	

**Magnesium nitrate hexahydrate > RE - Pure****RE**

Description ..... White or yellowish pellets  
Identification ..... Positive  
Fe ..... ≤ 10 ppm  
Assay (complexometric) ..... ≥ 96 %

Code	Size	Packaging	Notes
349557	1 kg	Plastic bottle	

**Magnesium nitrate 10 g/L solution**

Magnesio nitrato 10 g/L soluzione • Magnésium nitrato 10 g/L • Magnesio nitrato solución 10 g/L

HEU210

**Magnesium nitrate 10 g/L solution > RS - Matrix modifiers for AAS-GTA****RS**

Code	Size	Packaging	Notes
503196	50 ml	Plastic bottle	conc. 10 ppm - Matrix : Nitric acid

**Magnesium oxide**

Magnesio ossido • Magnésium oxyde • Magnesio óxido

MgO  
Molecular Weight: 40,31  
CAS: 1309-48-4  
EEC-N: 215-171-9

**Magnesium oxide > RS - For chromatography****RS**

Description ..... White powder  
Identification ..... Positive

Code	Size	Packaging	Notes
459617	1 kg	Plastic bottle	

**Magnesium oxide > RPE - For analysis****RPE**

Description ..... White powder  
Identification ..... Positive  
Loss on ignition ..... ≤ 2 %  
Assay (complexometric) ..... ≥ 99 %  
Chloride ..... ≤ 0.25 %  
Silicate ..... ≤ 500 ppm  
Sulphat + sulphit (SO<sub>4</sub>) ..... ≤ 0.25 %  
Ca ..... ≤ 0.3 %  
Fe ..... ≤ 400 ppm  
Na ..... ≤ 0.1 %

Code	Size	Packaging	Notes
459584	100 g	Plastic bottle	
459586	500 g	Plastic bottle	
459587	1 kg	Plastic bottle	



## Magnesium oxide heavy

Magnesio ossido pesante • Magnésium oxyde lourde • Magnesio óxido pesado

MgO  
Molecular Weight: 40,31  
CAS: 1309-48-4  
EEC-N: 215-171-9

### Magnesium oxide heavy > ERBApharm - According to pharmacopoeia : Ph.Eur.

ERBApharm

Description ..... White powder      Loss on ignition ..... ≤8.0 %      Soluble matter ..... ≤2.0 %      Fe ..... ≤0.07 %  
Identification ..... Positive      Chloride ..... ≤0.1 %      Acet.ac.not soluble ma. .... ≤0.1 %      Assay (complexometric) .... 98.0 ÷ 100.5 %  
Appearance of solution ..... Conform Ph.Eur.      Heavy metals (Pb) ..... ≤30 ppm      As ..... ≤4 ppm      Calc.  
Apparent density ..... ≥0.25 g/ml      Sulphate ..... ≤1.0 %      Ca ..... ≤1.5 %

Code	Size	Packaging	Notes
349655	1 kg	Plastic bottle	
349656	5 kg	Plastic jar	
349653	25 kg	Plastic bucket	



## Magnesium perchlorate

Magnesio perclorato • Magnésium perchlorate • Magnesio perclorato

Mg(ClO<sub>4</sub>)<sub>2</sub>  
Molecular Weight: 223,21  
CAS: 10034-81-8  
EEC-N: 233-108-3

**Classification transport**  
ONU: 1475  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H315-H319-H335  
P221-P264-P210a-P271-P304+P340-  
P305+P351+P338

### Magnesium perchlorate > RPE - For analysis

RPE

Description ..... White granules      Water (K.F.) ..... ≤15 %      Alkalinity(Mg oxide) ..... ≤200 ppm      Nitrate ..... ≤200 ppm  
Identification ..... Positive      Acidity(Perchloric ac.) ..... ≤500 ppm      Chloride ..... ≤100 ppm      Ca ..... ≤15 %

Code	Size	Packaging	Notes
422254	100 g	Glass bottle	
422251	250 g	Glass bottle	
422252	1 kg	Glass bottle	



## Magnesium peroxide

Magnesio perossido • Magnésium péroxide • Magnesio peróxido

MgO<sub>2</sub>  
Molecular Weight: 56,3  
CAS: 14452-57-4  
EEC-N: 238-438-1

**Classification transport**  
ONU: 1476  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272  
P210-P221-P280-P220-P370+P378a-P501a

### Magnesium peroxide > RE - Pure

RE

Description ..... White powder      Identification ..... Positive      Assay (oxidimetric) ..... ≥15 %

Code	Size	Packaging	Notes
349757	1 kg	Plastic bottle	
349753	25 kg	Drum	

Magnesium phosphate dibasic trihydrate ► Magnesium hydrogen phosphate trihydrate

**Magnesium stearate**

Magnesio stearato • Magnésium stéarate • Magnesio estearato

Synonym:

Stearic acid magnesium salt

 $[\text{CH}_3(\text{CH}_2)_{16}\text{CO}_2]_2\text{Mg}$ 

Molecular Weight: 591,27

CAS: 557-04-0

EEC-N: 209-150-3

**Magnesium stearate > ERBApharm - Vegetal origin-According to pharmacopoeia : Ph.Eur.-BP-FU-NF****ERBApharm**

Description .....	White powder	Stearic+Palmitic acid .....	≥ 90.0 %	Pb .....	≤ 10 ppm	Escherichia coli .....	Absent
Identification .....	Positive	Chloride .....	≤ 0.1 %	Assay (magnesium) .....	4.0 ÷ 5.0 % s.s.	Salmonella .....	Absent
Acidity or alkalinity .....	Conform Ph.Eur.	Sulphate .....	≤ 1.0 %	<b>Microbial tests</b>			
Loss on drying .....	≤ 6.0 %	Cd .....	≤ 3 ppm	TAMC .....	≤ 1000 CFU/g		
Stearic acid .....	≥ 40.0 %	Ni .....	≤ 5 ppm	TYMC .....	≤ 100 CFU/g		

Code	Size	Packaging	Notes
350032	2.5 kg	Plastic jar	
350035	25 kg	Fibre drum	

**Magnesium sulfate anhydrous**

Magnesio solfato anidro • Magnésium sulfate anhydre • Magnesio solfato anhidro

 $\text{MgSO}_4$ 

Molecular Weight: 120,36

CAS: 7487-88-9

EEC-N: 231-298-2

**Magnesium sulfate anhydrous > RE - Pure - For anhydrification****RE**

Appearance .....	White powder	Water content .....	≤ 2 % m/m	Bulk density .....	1.300 - 1.500 g/ml
Identification .....	Conform	Assay (on dry) .....	≥ 98.0 %		

Code	Size	Packaging	Notes
P1460012	1 kg	Plastic bottle	
P1460027	5 kg	Plastic jar	
P1460044	25 kg	Plastic bucket	
P1460057	50 kg	Fibre drum	

**Magnesium sulfate heptahydrate**

Magnesio solfato eptaidrato • Magnésium sulfate heptahydraté • Magnesio solfato heptahidratado

Synonym:

Epsom salts

 $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ 

Molecular Weight: 246,48

CAS: 10034-99-8

EEC-N: 231-298-2

**Magnesium sulfate heptahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	White crystals	Chloride .....	≤ 5 ppm	K .....	≤ 50 ppm	Appearance of solution .....	Conform
Identification .....	Positive	Nitrate .....	≤ 20 ppm	Mn .....	≤ 5 ppm	Acidity or alkalinity .....	Conform
pH sol. 5% at 25° C .....	5.0 ÷ 8.2	Heavy metals (Pb) .....	≤ 5 ppm	Na .....	≤ 50 ppm	Loss on drying .....	48.0 ÷ 52.0 %
Water-insoluble matter .....	≤ 50 ppm	Ca .....	≤ 200 ppm	Sr .....	≤ 50 ppm	As .....	≤ 2 ppm
Ammonium .....	≤ 20 ppm	Fe .....	≤ 5 ppm	Assay (complexometric) .....	98.0 ÷ 102.0 % s.s.		

Code	Size	Packaging	Notes
459665	100 g	Plastic bottle	
459666	500 g	Plastic bottle	
459667	1 kg	Plastic bottle	
459669	5 kg	Plastic jar	
459662	25 kg	Plastic bucket	

## Magnesium sulfate heptahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB

ERBApharm

Description .....	White crystalline powder	pH solution 5% .....	5.0 ÷ 9.2	Heavy metals (Pb).....	≤10 ppm	Assay (complexometric)99.0 ÷ 100.5 % s.s.
Identification .....	Positive	Loss on drying .....	48.0 ÷ 52.0 %	As .....	≤2 ppm	
Appearance of solution.....	Conform Ph.Eur.	Loss on ignition.....	40.0 ÷ 52.0 %	Fe .....	≤20 ppm	
Acidity or alkalinity.....	Conform Ph.Eur.	Chloride.....	≤140 ppm	Se .....	≤30 ppm	

Code	Size	Packaging	Notes
349852	1 kg	Plastic bottle	
349859	5 kg	Plastic jar	
349851	25 kg	Drum	



## Maize starch

Amido di mais • Amidon de maïs • Almidón de maiz

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
CAS: 9005-84-9  
EEC-N: 232-686-4

## Maize starch > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBApharm

Description .....	White or yellowish powder	pH at 20° C .....	4.0 ÷ 7.0	Fe .....	≤ 10 ppm	Escherichia coli .....	Absent Ph.Eur.
Identification .....	Positive	Loss on drying .....	≤ 15.0 %	<b>Microbial tests</b>		Salmonella.....	Absent Ph. Eur.
Zolfo diossido.....	≤ 50 ppm	Sulphated ash.....	≤ 0.6 %	TAMC .....	≤ 1000 CFU/g		
Foreign cellular elem. ....	Conform Ph.Eur.	Oxidizing substances.....	≤ 20 ppm	TYMC .....	≤ 100 CFU/g		

Code	Size	Packaging	Notes
313071	1 kg	Plastic bottle	
313072	5 kg	Plastic jar	
313073	25 kg	Plastic bucket	



## Malachite green

Verde malachite • Vert de malachite • Verde de malaquita

Synonym:  
Basic green 4

C<sub>23</sub>H<sub>25</sub>CIN<sub>2</sub>  
Molecular Weight: 364,92  
CAS: 569-64-2  
EEC-N: 209-322-8

**Classification transport**  
ONU: 3143  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H302-H318-H361d-H410  
P264-P273-P280i-P305+P351+P338-  
P308+P313-P330

## Malachite green > RS - For microscopy - C.I. 42000

RS

Description .....

Code	Size	Packaging	Notes
491303	25 g	Glass bottle	
491304	100 g	Plastic bottle	

Dye for cytology



## Malachite green solution 0.5% in acetic acid anhydrous

Verde malachite soluzione 0.5% in acido acetico anidro •  
Vert malachite solution 0.5% dans l'acide acétique anhydre •  
Verde de malaquita solución 0.5% en acido acético anhidro

Synonym:  
Basic green 4

**Classification transport**  
ONU: 3264

## Malachite green solution 0.5% in acetic acid anhydrous > RS - For analysis according to Ph. Eur. Chap.

RS

4.1.1

Code	Size	Packaging	Notes
611050501	1 l	Glass bottle	Ref Ph.Eur 1050501

**Maleic acid**

Acido maleico • Acide maléique • Acido maleico

Synonym:  
*cis-Butenedioic acid*  
*Toxic acid*HOOCCH:CHCOOH  
Molecular Weight: 116,07  
CAS: 110-16-7  
EEC-N: 203-742-5**Classification transport**  
ONU: 3261  
Transport Hazard class: 8  
Packing group III**Warning**H302-H315-H319-H317-H335  
P264-P271-P304+P340-P305+P351+P338-P330-  
P337+P313**Maleic acid > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.-USP-NF****ERBApharm**

Description .....	White crystalline powder	Fumaric acid.....	Conform Ph.Eur.	Sulphated ash.....	≤0.1 %	Assay (acidimetric) .....	99.0 ÷ 101.0 % s s
Identification .....	Positive	Melting point.....	132 ÷ 135 °C	Heavy metals (Pb).....	≤10 ppm	Origin (BSE/TSE).....	Synthesis
Appearance of solution .....	Conform Ph.Eur.	Water (K.F.).....	≤2.0 %	Fe .....	≤5 ppm	Residual solvents (Current ICH).....	Conform

Code	Size	Packaging	Notes
407266	500 g	Plastic bottle	
407261	5 kg	Plastic jar	
407263	25 kg	Fibre drum	

**Maleic anhydride**

Anidride maleica • Anhydride maléique • Anhidrido maleico

Synonym:  
*2,5-Furandione*OCOCH:CHCO  
Molecular Weight: 98,06  
CAS: 108-31-6  
EEC-N: 203-571-6**Classification transport**  
ONU: 2215  
Transport Hazard class: 8  
Packing group III**Danger**H302-H314-H334-H317  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P342+P311a**Maleic anhydride > RPE - For analysis****RPE**

Description .....	White flakes	Melting point.....	52 ÷ 55 °C	Assay (acidimetric) .....	≥ 98.5 %
Identification .....	Positive	Acido maleico libero .....	≤ 0.5 %		

Code	Size	Packaging	Notes
421955	250 g	Plastic bottle	

**DL-Malic acid**

Acido DL-malico • Acide DL-malique • Acido DL-málico

Synonym:  
*(±)-2-Hydroxysuccinic acid*  
*DL-Hydroxybutanedioic acid*HOOCCH(OH)CH<sub>2</sub>COOH  
Molecular Weight: 134,09  
CAS: 617-48-1  
EEC-N: 210-514-9**Warning**H319  
P264-P280-P305+P351+P338-P337+P313**DL-Malic acid > RPE - For analysis****RPE**

Description .....	White crystalline powder	Melting point.....	130 ÷ 132 °C	Heavy metals (Pb).....	≤ 20 ppm	Pb.....	≤ 10 ppm
Identification .....	Positive	Water .....	≤ 0.3 %	Sulphated ash.....	≤ 0.05 %	Assay (acidimetric) .....	≥ 99.0 %
Water-insoluble matter .....	≤ 0.1 %	Chloride.....	≤ 5 ppm	As .....	≤ 3 ppm		

Code	Size	Packaging	Notes
407314	100 g	Plastic bottle	
407316	500 g	Plastic bottle	

**Malonic acid**

Acido malonico • Acide malonique • Acido malónico

Synonym:  
*Propanedioic acid*HOOCCH<sub>2</sub>COOH  
Molecular Weight: 104,06  
CAS: 141-82-2  
EEC-N: 205-503-0**Warning**H302-H319  
P264-P280i-P305+P351+P338-P330-P337+P313-  
P301+P312a**Malonic acid > RPE - For analysis****RPE**

Description .....	White crystalline powder	Melting point.....	133 ÷ 136 °C	Assay (acidimetric) .....	≥ 98.5 %	Sulphate .....	≤ 0.1 %
Identification .....	Positive	Chloride.....	≤ 100 ppm	Residue on ignition.....	≤ 0.5 %		

Code	Size	Packaging	Notes
407363	50 g	Glass bottle	
407365	250 g	Glass bottle	

**Maltose monohydrate**

Maltosio monoidrato • Maltose monohydraté • Maltosa monohidrató

Synonym:

4-O- $\alpha$ -D-Glucopyranosyl-D-glucose

Molecular Weight: 360,31

CAS: 6363-53-7

EEC-N: 200-716-5

**Maltose monohydrate > RPE - For analysis****RPE**Description ..... Whitish powder Potere rotat. spec. (C=2; H2O 24h) ..... 130  $\pm$  3 ° Melting point ..... ca. 120 °C (dec)  
Identification ..... Positive Water .....  $\leq$  7.5 % Assay .....  $\geq$  94.0 %

Code	Size	Packaging	Notes
459863	50 g	Glass bottle	
459865	250 g	Plastic bottle	

**DL-Mandelic acid**

Acido DL-mandelico • Acide DL-mandélique • Acido DL-mandélico



Molecular Weight: 152,15

CAS: 90-64-2

EEC-N: 202-007-6

**DL-Mandelic acid > RE - Pure****RE**Description ..... White crystalline powder Identification ..... Positive Melting point ..... 118  $\div$  122 °C Assay (acidimetric) .....  $\geq$  97.5 %

Code	Size	Packaging	Notes
304757	1 kg	Plastic bottle	

**L(+)-Mandelic acid**

Acido L(+)-mandelico • Acide L(+)-mandélique • Acido L(+)-mandélico

Synonym:

(S)- $\alpha$ -hydroxyphenylacetic acid

Molecular Weight: 152,15

CAS: 17199-29-0

EEC-N: 241-240-8

**L(+)-Mandelic acid > RPE - For analysis****RPE**Description ..... White crystalline powder Identification ..... Positive Melting point ..... 132  $\div$  134 °C Specific optical rotation +153.4  $\div$  +155.4 °

Code	Size	Packaging	Notes
407431	25 g	Glass bottle	

**Manganese standard solution**

Manganese standard soluzione • Manganèse solution standard • Manganese, solución patrón

**Classification transport**

ONU: 3264

Transport Hazard class: 8

Packing group II

**Danger**

H314

P264-P280-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

**Manganese standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615004500	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5004500
615005800	1 l	Plastic bottle	A 1.000 ppm solution Ref Ph.Eur 5005800



**Manganese standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505717	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505718	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505719	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Manganese standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503721	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503725	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503723	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503727	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Manganese standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507746	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497545	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507488	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497541	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Manganese standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
459911		Plastic vial	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Manganese standard solution > RS - Quality control standard solution for AAS (graphite furnace)**

RS

Code	Size	Packaging	Notes
504362	50 ml	Glass bottle	conc. 20 +/- 2 µg/L Matrix : 2% Nitric acid

**Manganese electrolytic**

Manganese elettrolitico • Manganèse électrolytique • Manganeso electrolítico

Mn  
Molecular Weight: 54,94  
CAS: 7439-96-5  
EEC-N: 231-105-1

**Manganese electrolytic > RPE - For analysis**

RPE

Description ..... Brown irregular flakes Identification ..... Positive Assay ..... 99.9 ÷ 100.0 %

Code	Size	Packaging	Notes
459965	250 g	Glass bottle	



## Manganese (II) acetate tetrahydrate

Manganese acetato oso tetraidrato • Manganèse (II) acétate tetrahydrate • Manganeso (II) acetato tetraidrato

Synonym:  
Manganous acetate

$Mn(CH_3COO)_2 \cdot 4H_2O$   
Molecular Weight: 245,09  
CAS: 6156-78-1



### Warning

H315-H319-H361-H335  
P264-P271-P304+P340-P305+P351+P338-  
P308+P313-P312a

### Manganese (II) acetate tetrahydrate > RPE - For analysis

**RPE**

Description ..... Pink crystals	Heavy metals (Pb)..... ≤ 5 ppm	Cd ..... ≤ 2.5 ppm	Zn ..... ≤ 2.5 ppm
Identification ..... Positive	Subst. not ppt. (NH <sub>4</sub> ) <sub>2</sub> S ..... ≤ 0.2 %	Cu ..... ≤ 2.5 ppm	Assay (complexometric) ..... ≥ 99 %
pH sol. 5% at 25° C ..... 6.8 ÷ 8.0	Subst. reducing KMnO <sub>4</sub> ..... ≤ 10 ppm (1m)	Fe ..... ≤ 20 ppm	
Chloride ..... ≤ 10 ppm	Sulphate ..... ≤ 50 ppm	Ni ..... ≤ 10 ppm	
Water-insoluble matter ..... ≤ 50 ppm	Ca ..... ≤ 100 ppm	Pb ..... ≤ 5 ppm	

Code	Size	Packaging	Notes
460005	250 g	Plastic bottle	
460007	1 kg	Plastic bottle	
460001	25 kg	Plastic bucket	



## Manganese (II) carbonate

Manganese carbonato oso • Manganèse (II) carbonate • Manganeso (II) carbonato

$MnCO_3 \cdot nH_2O$   
Molecular Weight: 114,95  
CAS: 598-62-9  
EEC-N: 209-942-9

### Manganese (II) carbonate > RPE - For analysis

**RPE**

Description ..... Hazel powder	HCl-insoluble matter ..... ≤ 100 ppm	Ca ..... ≤ 0.15 %	Ni ..... ≤ 20 ppm
Identification ..... Positive	Heavy metals (Pb)..... ≤ 50 ppm	Cd ..... ≤ 10 ppm	Pb ..... ≤ 10 ppm
Alkaline carbonate ..... ≤ 500 ppm	Subst. not ppt. (NH <sub>4</sub> ) <sub>2</sub> S ..... ≤ 0.7 %	Cu ..... ≤ 10 ppm	Zn ..... ≤ 10 ppm
Chloride ..... ≤ 50 ppm	Sulphate ..... ≤ 50 ppm	Fe ..... ≤ 50 ppm	Assay (complexometric) .... 42 ÷ 46 % (Mn)

Code	Size	Packaging	Notes
460107	1 kg	Plastic bottle	
460103	25 kg	Drum	



## Manganese (II) chloride tetrahydrate

Manganese cloruro oso tetraidrato • Manganèse (II) chlorure tetrahydrate • Manganeso (II) cloruro tetraidratado

$MnCl_2 \cdot 4H_2O$   
Molecular Weight: 197,91  
CAS: 13446-34-9



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### Manganese (II) chloride tetrahydrate > RPE - For analysis

**RPE**

Description ..... Pink crystalline powder	%	Fe ..... ≤ 5 ppm	Zn ..... ≤ 10 ppm
Identification ..... Positive	Sulphate ..... ≤ 50 ppm	Mg ..... ≤ 50 ppm	Assay ..... ≥ 99 %
Substances reducing KMnO <sub>4</sub> (O) ..... ≤ 0.0005	Ca ..... ≤ 10 ppm	Pb ..... ≤ 5 ppm	

Code	Size	Packaging	Notes
460158	100 g	Plastic bottle	
460156	500 g	Plastic bottle	
460159	1 kg	Plastic bottle	

### Manganese (II) chloride tetrahydrate > RE - Pure

**RE**

Description ..... Pink crystals	Water-insoluble matter ..... ≤ 500 ppm	Fe ..... ≤ 50 ppm
Identification ..... Positive	Sulphate ..... ≤ 500 ppm	Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
351507	1 kg	Plastic bottle	
351508	5 kg	Plastic jar	
351502	25 kg	Plastic bucket	

**Manganese (IV) oxide**

Manganese biossido • Manganèse (IV) dioxyde • Manganeso (IV) dióxido

Synonym:  
Manganese dioxideMnO<sub>2</sub>  
Molecular Weight: 86,94  
CAS: 1313-13-9  
EEC-N: 215-202-6**Warning**H302-H332  
P264-P271-P261-P304+P340-P330-P301+P312a**Manganese (IV) oxide > RPE - For analysis****RPE**

Description ..... Black powder Identification ..... Positive Loss on drying 120° C ..... ≤1.5 % Assay (oxidimetric) ..... ≥90.0 %

Code	Size	Packaging	Notes
460055	250 g	Plastic bottle	
460056	1 kg	Plastic bottle	
460052	25 kg	Plastic bucket	

**Manganese (II) sulfate monohydrate**

Manganese solfato oso monoidrato • Manganèse (II) sulfato monohydraté • Manganeso (II) sulfato monohidrató

MnSO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight: 162,09  
CAS: 10034-96-5  
EEC-N: 232-089-9**Classification transport**ONU: 3077  
Transport Hazard class: 9  
Packing group III**Warning**H373-H411  
P273-P260-P314-P391-P501a**Manganese (II) sulfate monohydrate > RPE - For analysis - ACS****RPE**Description ..... Pink powder Subst. reducing KMnO<sub>4</sub> ..... Conform Fe ..... ≤20 ppm Ni ..... ≤200 ppm  
Identification ..... Positive Chloride ..... ≤50 ppm K ..... ≤100 ppm Zn ..... ≤50 ppm  
Loss on ignition ..... 10.0 ÷ 12.0 % Heavy metals (Pb) ..... ≤20 ppm Mg ..... ≤50 ppm Assay (complexometric) ..... 98.0 ÷ 101.0 %  
Water-insoluble matter ..... ≤100 ppm Ca ..... ≤50 ppm Na ..... ≤500 ppm

Code	Size	Packaging	Notes
460305	250 g	Plastic bottle	
460307	1 kg	Plastic bottle	

**Manganese (II) sulfate monohydrate > RE - Pure****RE**Description ..... Polvere rosata Water-insoluble matter ..... ≤ 500 ppm As ..... ≤ 5 ppm  
Identification ..... Positive Pb ..... ≤ 15 ppm Assay (complexometric) ..... ≥ 98 %

Code	Size	Packaging	Notes
352007	1 kg	Plastic bottle	
352008	5 kg	Plastic jar	
352002	25 kg	Drum	

**D-Mannitol**

D-Mannitolo • D-Mannitol • D-Manitol

Synonym:  
ManniteCH<sub>2</sub>OH(CHOH)<sub>4</sub>CH<sub>2</sub>OH  
Molecular Weight: 182,17  
CAS: 69-65-8  
EEC-N: 200-711-8**D-Mannitol > RPE - For analysis****RPE**Description ..... White crystal. powder Acidity (acetic acid) ..... ≤50 ppm Sulphate ..... ≤100 ppm Fe ..... ≤10 ppm  
Identification ..... Positive Chloride ..... ≤10 ppm Red.ing sugars(Glucose) ..... ≤0.1 % Assay (oxidimetric) ..... ≥98.5 %  
Melting point ..... 166.0 ÷ 170.0 ° C Water-insoluble matter ..... ≤100 ppm Total sugars(Glucose) ..... ≤0.3 %  
Specific optical rotation+23.00 ÷ +25.00 ° Heavy metals (Pb) ..... ≤5 ppm As ..... ≤1 ppm  
Loss on drying ..... ≤0.1 % Residue on ignition ..... ≤100 ppm Ca ..... ≤40 ppm

Code	Size	Packaging	Notes
460355	250 g	Plastic bottle	
460357	1 kg	Plastic bottle	
460352	5 kg	Plastic jar	
460353	25 kg	Plastic bucket	

## D-Mannitol > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU

**ERBApharm**

Description .....	White crystalline powder	Loss on drying .....	≤ 0.3 %	Specific optical rotation at 25°C (on dr+137	
Identification .....	Positive	Chloride .....	≤ 70 ppm	÷ +145 °	
Appearance of solution .....	Conform Ph.Eur.	Sulphate .....	≤ 100 ppm	Assay (anhydrous) (HPLC) .97.0 ÷ 102.0 %	
Acidity .....	Conform USP-NF	As .....	≤ 1 ppm	Reducing sugar .....	≤ 0.1 %
Melting point .....	165 ÷ 170 °C	Ni .....	≤ 1 ppm	Sostanze analoghe (HPLC) .Conform Ph.Eur.	
Heavy metals (Pb) .....	≤ 5 ppm	Pb .....	≤ 0.5 ppm	Conductivity .....	≤ 20 µS.cm-1

<b>Microbial tests</b>	
TAMC .....	≤ 1000 CFU/g
TYMC .....	≤ 100 CFU/g
Escherichia coli .....	Absent Ph. Eur.
Salmonella .....	Absent Ph. Eur.
Residue on ignition .....	≤ 100 ppm

Code	Size	Packaging	Notes
352051	1 kg	Plastic bottle	
352052	5 kg	Plastic jar	
352053	25 kg	Plastic bucket	

## Mascagnite ► Ammonium sulfate



### May Grünwald reagent

May Grünwald reattivo • Réactif de May Grünwald • May Grünwald reactivo

#### Classification transport

ONU: 1992  
 Transport Hazard class: 3  
 Packing group II



#### Danger

H225-H301-H331-H370  
 P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

## May Grünwald reagent > RS - For hematology

**RS**

Description .....	Blue clear liquid	pH (20% in water) .....	5.4 ÷ 7.5	E 1% / 1 cm a 552 nm .....	30 ÷ 40	Functionality .....	Conform
Identification .....	Positive	E 1% / 1 cm a 522 nm .....	130 ÷ 180	E 1% / 1 cm a 650 nm .....	250 ÷ 350		

Code	Size	Packaging	Notes
460584	100 ml	Plastic bottle	
E460582	6 x 100 ml	Plastic bottle	
460586	500 ml	Plastic bottle	
E460583	6 x 500 ml	Plastic bottle	
460581	2.5 l	Plastic bottle	
E460585	4 x 2.5 l	Plastic bottle	

CE **IVD** Dye according to Pappenheim hematology



### Mayer's reagent

Mayer reattivo soluzione in acqua • Réactif de Mayer • Mayer reactivo solución en agua

#### Classification transport

ONU: 2024  
 Transport Hazard class: 6.1  
 Packing group II



#### Danger

H300-H315-H319-H334-H317-H341-H373-H412  
 P264-P273-P280-P304+P340-P305+P351+P338-P342+P311a

## Mayer's reagent > RS - For alkaloids detection

**RS**

Description .....	Yellow clear liquid	Identification .....	Positive
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Code	Size	Packaging	Notes
460502	500 ml	Plastic bottle	



## L-Menthol

L-Mentolo • L-Menthol • L-Mentol

Synonym:

5-Methyl-2-(1-methylethyl)cyclohexanol

$C_{10}H_{19}OH$   
Molecular Weight: 156,27  
CAS: 2216-51-5  
EEC-N: 218-690-9



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### L-Menthol > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description ..... Colourless crystals      Specific optical rotation.....  $-51 \div -45^\circ$       Nonvolatil residue.....  $\leq 0.05\%$       Total impurities (GC) .....  $\leq 2.0\%$   
Identification ..... Positive      Melting point.....  $41 \div 44^\circ C$       Related compounds..... Conform USP-NF      Individual impurities (GC) .....  $\leq 0.3\%$

Code	Size	Packaging	Notes
352103	50 g	Glass bottle	
352106	500 g	Plastic bottle	



## 2-Mercaptoethanol

2-Mercaptoetanolo • 2-Mercaptoéthanol • 2-Mercaptoetanol

Synonym:

Thioethylene glycol  
2-Hydroxyethylmercaptan

$HSCH_2CH_2OH$   
Molecular Weight: 78,13  
CAS: 60-24-2  
EEC-N: 200-464-6

### Classification transport

ONU: 1750  
Transport Hazard class: 6.1  
Packing group II



### Danger

H301-H310-H314-H411  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### 2-Mercaptoethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid      Refractive index at 20° C.....  $1.4990 \div 1.5020$       Assay (GLC) .....  $\geq 98.5\%$   
Identification ..... Positive      Water .....  $\leq 0.5\%$

Code	Size	Packaging	Notes
460691	10 ml	Glass bottle	



## Mercuric bromide paper

Carta al bromuro mercurico • Papier bromure mercurique • Mercurio bromuro papel

### Classification transport

ONU: 1935  
Transport Hazard class: 6.1  
Packing group III



### Warning

H302-H332-H373-H411  
P264-P273-P271-P304+P340-P314-P330

### Mercuric bromide paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611052101	50 pc	Glass bottle	Ref Ph.Eur 1052101

Storage: in a glass-stoppered container wrapped with black paper



## Mercury standard solution

Mercurio standard soluzione • Mercure solution standard • Mercurio, solución patrón

### Mercury standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615001901	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5001901
615001900	1 l	Plastic bottle	A 1000 ppm solution Ref Ph.Eur 5001900

### Mercury standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505652	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505655	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid
506918	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505654	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Mercury standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
503631	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503635	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503633	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503637	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Mercury standard solution > RS - Standard solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
497555	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503640	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507489	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
497551	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Mercury standard solution > RS - NORMEX - Concentrated solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
460741		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Mercury standard solution > RS - Quality control standard solution for AAS (graphite furnace)

**RS**

Code	Size	Packaging	Notes
504370	100 ml	Plastic bottle	conc. 500 +/- 30 µg/L Matrix : 2% Nitric acid



## Mercury (I) chloride

di-Mercurio dicloruro • Mercure (I) chlorure • Mercure (I) chlorure

Synonym:  
Calomel  
Mercurous chloride

Hg<sub>2</sub>Cl<sub>2</sub>  
Molecular Weight: 472,09  
CAS: 10112-91-1  
EEC-N: 233-307-5

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
H302-H315-H319-H335-H410  
P264-P273-P271-P304+P340-  
P305+P351+P338-P330

## Mercury (I) chloride > RE - Pure

**RE**

Description ..... White crystalline powder Residue on ignition..... ≤ 0.02 % Assay ..... ≥ 99.5 %  
Identification ..... Positive Sulphate..... ≤ 0.01 %

Code	Size	Packaging	Notes
352654	100 g	Glass bottle	
352657	1 kg	Plastic bottle	



## Mercury (II) chloride

Mercurio dicloruro • Mercure (II) chlorure • Mercurio (II) dicloruro

Synonym:  
Mercuric chloride

HgCl<sub>2</sub>  
Molecular Weight: 271.50  
CAS: 7487-94-7  
EEC-N: 231-299-8

**Classification transport**  
ONU: 1624  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H300-H314-H341-H361f-H372-H410  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Mercury (II) chloride > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USB

**RPE**

Description ..... Pezzi bianchi Residue after reduction..... ≤200 ppm Appearance of solution ..... Conform Loss on drying ..... ≤1.0 %  
Identification ..... Positive Fe ..... ≤20 ppm Acidity or alkalinity..... Conform  
Solution in ethyl ether ..... Conform Assay (complexometric)99.5 ÷ 100.5 % s.s. Mercurous chloride ..... Conform

Code	Size	Packaging	Notes
461003	50 g	Glass bottle	

**Mercury chloride solution 54 g/l**

Mercurio cloruro soluzione 54 g/l • Mercure (II) chlorure solution • Mercurio dicloruro solución 54 g/l

Synonym:  
Mercuric chloride**Classification transport**ONU: 2024  
Transport Hazard class: 6.1  
Packing group II**Danger**H301-H310-H318-H341-H361f-H373-H400-H411  
P264-P273-P280-P305+P351+P338-P301+P310a-  
P308+P313**Mercury chloride solution 54 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611052201	100 ml	Plastic bottle	Ref Ph.Eur 1052201

**Mercury (II) iodide**

Mercurio ioduro ico • Mercure (II) iodure • Mercurio (II) yoduro

Synonym:  
Mercuric iodide redHgI<sub>2</sub>  
Molecular Weight: 454,45  
CAS: 7774-29-0  
EEC-N: 231-873-8**Classification transport**ONU: 1638  
Transport Hazard class: 6.1  
Packing group II**Danger**H300-H310-H330-H373-H410  
P264-P273-P271-P284-P304+P340-P301+P310a**Mercury (II) iodide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**Description .....Red - brick powder Solub. in KI solution ..... Conform Mercurous compounds ..... ≤0.1 %  
Identification ..... Positive Soluble mercury salts ..... ≤500 ppm Assay (oxidimetric) ..... ≥99.0 % s.s.

Code	Size	Packaging	Notes
461105	250 g	Glass bottle	

**Mercury (II) oxide red**

Mercurio ossido rosso • Mercure (II) oxyde rouge • Mercurio (II) óxido rojo

Synonym:  
Mercuric oxideHgO  
Molecular Weight: 216,59  
CAS: 21908-53-2  
EEC-N: 244-654-7**Classification transport**ONU: 1641  
Transport Hazard class: 6.1  
Packing group II**Danger**H300-H310-H330-H373-H410  
P264-P273-P271-P284-P304+P340-P301+P310a**Mercury (II) oxide red > RPE - For analysis - ACS****RPE**Description .....Red powder Chloride ..... ≤ 250 ppm Residue after reduction ..... ≤ 0.025 %  
Identification ..... Positive Sulphate ..... ≤ 150 ppm Fe ..... ≤50 ppm  
Diluted HCl-ins. matter ..... ≤ 0.03 % Nitrogen compounds (N) ..... ≤ 50 ppm Assay (complexometric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
461325	250 g	Glass bottle	

**Mercury (II) sulfate**

Mercurio solfato ico • Mercure (II) sulfate • Mercurio (II) sulfato

Synonym:  
Mercuric sulfateHgSO<sub>4</sub>  
Molecular Weight: 296,65  
CAS: 7783-35-9  
EEC-N: 231-992-5**Classification transport**ONU: 1645  
Transport Hazard class: 6.1  
Packing group II**Danger**H300-H310-H330-H373-H410  
P264-P273-P271-P284-P304+P340-P301+P310a**Mercury (II) sulfate > RPE - For analysis - ACS****RPE**Description ..... White powder or yellow Chloride ..... ≤30 ppm Mercurous compounds ..... ≤0.15 % Fe ..... ≤50 ppm  
Identification ..... Positive Residue on ignition ..... ≤200 ppm Nitrate ..... Conform Assay (oxidimetric) ..... ≥98.0 %

Code	Size	Packaging	Notes
461405	250 g	Glass bottle	

	<b>Mercury sulfate solution</b> Mercurio solfato soluzione • Mercure (II) sulfate solution • Mercurio sulfato solución		Synonym: Mercuric sulfate	
	<b>Classification transport</b> ONU: 2922 Transport Hazard class: 8 Packing group II		<b>Danger</b> H302-H331-H314-H318-H373-H411 P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338	

**Mercury sulfate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

**RS**

Code	Size	Packaging	Notes
611052600	100 ml	Glass bottle	Ref Ph.Eur 1052600

	<b>Metanil yellow</b> Giallo metanile • Jaune de méthanyle • Amarillo de metanilo		Synonym: 3-(4-Anilinophenylazo)benzenesulfonic acid sodium salt Acid yellow 36	
	<b>Chemical formula:</b> C <sub>18</sub> H <sub>14</sub> N <sub>3</sub> NaO <sub>3</sub> S Molecular Weight: 375,38 CAS: 587-98-4 EEC-N: 209-608-2	<b>Classification transport</b> ONU: 2922 Transport Hazard class: 8 Packing group II		<b>Warning</b> H312-H332 P271-P280-P261-P304+P340-P312a-P302+P352a



**Metanil yellow > RPE - For analysis - C.I. 13065**

**RPE**

Description ..... Polvere giallo-marrone      pH range ..... 1.2 - 2.3      Colour change..... red-yellow  
Identification ..... Positive      Loss on drying ..... ≤5 %

Code	Size	Packaging	Notes
453542	25 g	Glass bottle	

**Acid-base indicator (pH 1.2 ÷ 2.3)**



	<b>Metaphosphoric acid</b> Acido metafosforico • Acide métaphosphorique • Acido metafosfórico		Synonym: meta-Phosphoric acid	
	<b>Chemical formula:</b> HPO <sub>3</sub> Molecular Weight: 79,98 CAS: 37267-86-0	<b>Classification transport</b> ONU: 3261 Transport Hazard class: 8 Packing group III		<b>Danger</b> H314 P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Metaphosphoric acid > RPE - For analysis**

**RPE**

Description Whitish semitransparent pieces      Heavy metals (Pb).....≤10 ppm      Sulphate.....≤10 ppm      Pb.....≤10 ppm  
Identification ..... Positive      Nitrate .....≤10 ppm      As .....≤1 ppm      Assay (acidimetric) ..... 40 ÷ 50 %  
Chloride.....≤20 ppm      Subst. reducing KMnO<sub>4</sub>.....≤100 ppm (5m)      Fe .....≤100 ppm      Stabilizer(NaPO<sub>3</sub>) .....50 ÷ 60 %

Code	Size	Packaging	Notes
407465	250 g	Plastic bottle	
407467	1 kg	Plastic bottle	

	<b>Methanesulfonic acid</b> Acido metansolfonico • Acide méthanesulfonique • Acido metanosulfónico		Synonym: meta-Phosphoric acid	
	<b>Chemical formula:</b> CH <sub>3</sub> SO <sub>3</sub> H Molecular Weight: 96,11 CAS: 75-75-2 EEC-N: 200-898-6	<b>Classification transport</b> ONU: 2586 Transport Hazard class: 8 Packing group III		<b>Danger</b> H314 P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Methanesulfonic acid > RE - Pure**

**RE**

Description ..... Colourless to yellow liquid      Identification ..... Positive      Density at 20° C ..... 1.47 ÷ 1.48      Assay (acidimetric) ..... ≥99 %

Code	Size	Packaging	Notes
407481	250 ml	Glass bottle	
407483	1 l	Glass bottle	





## Methanol

Metanolo • Méthanol • Metanol

Synonym:  
Methyl alcohol

CH<sub>3</sub>OH  
Molecular Weight: 32,04  
CAS: 67-56-1  
EEC-N: 200-659-6

**Classification transport**  
ONU: 1230  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H311-H331-H370  
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### Methanol > RS - For UHPLC-MS

RS

Description ..... Clear colourless liquid  
Colour ..... ≤ 5 APHA  
Identification (I.R.) ..... Positive  
Refractive index at 20°C ..... 1.3270 - 1.3300  
Residue on evaporation ..... ≤ 1 ppm  
Acidity ..... ≤ 0.0003 meq/g  
Alkalinity ..... ≤ 0.00006 meq/g  
Assay (CPG) ..... ≥ 99.99 %

Water (K.F.) ..... ≤ 200 ppm  
**Transmittance**  
At 210 nm ..... ≥ 40 %  
At 225 nm ..... ≥ 70 %  
At 230 nm ..... ≥ 80 %  
≥ 260 nm ..... ≥ 98 %  
**Fluorescence (quinine)**  
At 254 nm ..... ≤ 1 ppb

At 365 nm ..... ≤ 1 ppb  
**UHPLC gradient peak**  
At 220 nm ..... ≤ 4 MAU  
At 235 nm ..... ≤ 2 MAU  
Drift at 220 nm ..... ≤ 30 MAU  
Drift at 235 nm ..... ≤ 10 MAU  
Sensitive Impurities (reserpine) ..... ≤ 30 ppb

**Metals compounds**

Al ..... ≤ 20 ppb  
Fe ..... ≤ 20 ppb  
Na ..... ≤ 50 ppb  
Ca ..... ≤ 50 ppb  
Mg ..... ≤ 20 ppb  
K ..... ≤ 50 ppb

Code	Size	Packaging	Notes
414941	1 l	Glass bottle	
414942	2.5 l	Glass bottle	

### Methanol > RS - For LC/MS

RS

Description ..... Clear colourless liquid  
Colour ..... ≤ 10 APHA  
Identification (I.R.) ..... Conform  
Refractive index at 20°C ..... 1.327 ÷ 1.331  
Water (K.F.) ..... ≤ 200 ppm  
Residue on evaporation ..... ≤ 2 ppm  
Acidity ..... ≤ 0.0003 meq/g

Alkalinity ..... ≤ 0.00006 meq/g  
Assay (GLC) ..... ≥ 99.95 %  
**Transmission UV (1cm, ref water)**  
At 210 nm ..... ≥ 30 %  
At 225 nm ..... ≥ 65 %  
At 235 nm ..... ≥ 85 %  
At 250 nm ..... ≥ 95 %

≥ 260 nm ..... ≥ 98 %  
**Fluorescence (quinine)**  
At 254 nm ..... ≤ 1 ppb  
At 365 nm ..... ≤ 1 ppb  
**HPLC gradient**  
**Test LC-MS TIC (50-2000m/z) ESI (+)**  
Sensitive Impurities (reserpine) ..... ≤ 50 ppb

**Metals compounds**

Al ..... ≤ 50 ppb  
Fe ..... ≤ 50 ppb  
Na ..... ≤ 50 ppb  
Ca ..... ≤ 50 ppb  
Mg ..... ≤ 50 ppb  
K ..... ≤ 50 ppb

Code	Size	Packaging	Notes
414831	1 l	Glass bottle	
414832	2.5 l	Glass bottle	

Filtered through 0.1 micron membrane.

### Methanol > RS - For HPLC - GOLD - Ultragradient grade

RS

Description ..... Clear liquid  
Identification ..... Positive  
Colour (APHA) ..... ≤ 10  
Density at 20°C ..... 0.7910 ÷ 0.7930  
Refractive index at 20°C ..... 1.3270 ÷ 1.3300  
Distillation range ..... 64.1 ÷ 65.1 °C  
Water (K.F.) ..... ≤ 0.02 %

Residue on evaporation ..... ≤ 5 ppm  
Carbonyl compounds (CH<sub>3</sub>COCH<sub>3</sub>) ... ≤ 20 ppm  
Substances reducing KMnO<sub>4</sub> (O) ... ≤ 2 ppm  
Acidity ..... ≤ 0.0003 meq/g  
Alcalinity ..... ≤ 0.00006 meq/g  
Ethanol ..... ≤ 50 ppm

Assay (GLC) ..... ≥ 99.9 %  
**Fluorescence**  
at 254 nm ..... ≤ 1 ppb  
at 365 nm ..... ≤ 1 ppb  
**Transmittance**  
at 210 nm ..... ≥ 30 %  
at 220 nm ..... ≥ 55 %

at 225 nm ..... ≥ 65 %  
at 235 nm ..... ≥ 85 %  
at 240 nm ..... ≥ 90 %  
at 250 nm ..... ≥ 95 %  
at 260 nm ..... ≥ 98 %  
**Functionality for HPLC**  
HPLC Gradient ..... Passed test

Code	Size	Packaging	Notes
412721	1 l	Glass bottle	
412722	2.5 l	Glass bottle	
412724	4 l	Glass bottle	
412725	5 l	Aluminium can	

Filtered at 0.2 micron

### Methanol > RS - For HPLC PLUS Gradient grade

RS

Description ..... Clear colourless liquid  
Identification ..... Positive  
Density at 20° C ..... 0.7917 ÷ 0.7921  
Refractive index at 20°C ..... 1.3278 ÷ 1.3298  
Boiling point ..... 64.1 ÷ 65.1 °C  
Water (K.F.) ..... ≤ 0.02 %

Residue on evaporation ..... ≤ 5 ppm  
Acidity ..... ≤ 0.0005 meq/g  
Alcalinity ..... ≤ 0.0002 meq/g  
Assay (GLC) ..... ≥ 99.9 %  
**Fluorescence**  
at 254 nm ..... ≤ 1 ppb

at 365 nm ..... ≤ 1 ppb  
**U.V. Transmittance**  
at 210 nm ..... ≥ 30 %  
at 220 nm ..... ≥ 50 %  
at 235 nm ..... ≥ 80 %  
at 260 nm ..... ≥ 98 %

Carbonyl compounds (CO) ..... ≤ 20 ppm  
Ethyl alcohol ..... ≤ 200 ppm  
**HPLC Gradient**

Code	Size	Packaging	Notes
412381	1 l	Glass bottle	
412383	2.5 l	Glass bottle	

Filtered at 0.2 micron.

## Methanol > RS - For HPLC Isocratic grade - ACS - Reag.Ph.Eur R2 - Reag.USP

**RS**

Description .....	Clear colourless liquid	Water (K.F) .....	≤ 0.05 %	Carbonyl compounds (CO).....	≤ 0.001 %	at 235 nm .....	≥ 80 %
Identification .....	Positive	Acidity .....	≤ 0.0005 meq/g	Absorbance ACS .....	Conform	at 260 nm .....	≥ 98 %
Density at 20° C .....	0.791 ÷ 0.793	Alcalinity.....	≤ 0.0002 meq/g	HPLC Gradient (ACS) .....	Conform	<b>Absorbance</b>	
Refractive index at 20°C.....	1.3278 ÷ 1.3298	Substances darkened by H2SO4 ...	Conform	Assay (GLC) .....	≥ 99.9 %	At 225 nm .....	≤ 0.17 AU
Boiling point.....	64 ÷ 65 °C	Subs. reducing KMnO4.....	Conform	<b>U.V. Transmittance</b>			
Residue on evaporation .....	≤ 5 ppm	Solubility in water.....	Conform	at 210 nm .....	≥ 20 %		

Code	Size	Packaging	Notes
412531	1 l	Glass bottle PVC coated	
412533	1 l	Glass bottle	
412532	2.5 l	Glass bottle	
412535	2.5 l	Glass bottle PVC coated	

## Methanol > RS - For HPLC - Isocratic Grade

**RS**

Description .....	Clear colourless liquid	Assay (GC) .....	≥ 99.9 %	Water (KF).....	≤ 500 ppm	Transmittance UV at 235 nm.....	≥ 80 %
Refractive index at 20°C.....	1.3278 ÷ 1.3298	Acidity (Formic Ac).....	≤ 20 ppm	<b>Transmittance UV</b>		Transmittance UV at 260 nm.....	≥ 98 %
Boiling point.....	63.6 ÷ 65.6 °C	Residue on evaporation .....	≤ 10 ppm	Transmittance UV at 210 nm.....	≥ 20 %	Density d20/20.....	0.791 - 0.793

Code	Size	Packaging	Notes
525101	1 l	Glass bottle	
525102	2.5 l	Glass bottle	

## Methanol > RS - ATRASOL - For trace analysis, Suitable for Volatile chlorinated compounds a

**RS**

Appearance .....	Clear colourless liquid	Non volatile residue.....	≤ 2 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform	<b>Retention time range over toluène</b>	
Refractive index at 20°C.....	1.327 - 1.331	Assay (GC) .....	≥ 99.98 %	GC-ECD.Individual peak (Lindane) ..	≤ 2 ng/l	GC-ECD.Individual peak (CCl4) .....	≤ 1 µg/l
Water content (K.F).....	≤ 300 mg/Kg	Free alkali (as NH3) .....	≤ 1 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>		<b>Ret.time dichloromethane- trichloro-</b>	
Colour .....	≤ 5 Hazen	Free acid (as HCOOH) .....	≤ 10 mg/Kg	GC-FID.Individ. peak (hexadecane) ..	≤ 5 µg/l	<b>benz.</b>	

Code	Size	Packaging	Notes
P0933216	1 l	Glass bottle	
P0933221	2.5 l	Glass bottle	

## Methanol > RS - PESTIPUR - For pesticide analysis

**RS**

Refractive index at 20°C.....	1.327 - 1.331	Water .....	≤ 0.05 %	<b>Retention time trichlorobenzene to mirex</b>			
Description .....	Clear colourless liquid	Free acids (HCOOH).....	≤ 10 ppm	GC-NPD.Individual peak (Ethylparathion) .....	≤ 3 ng/l		
Identification .....	Positive	Free alkalies (NH3) .....	≤ 1 ppm	Assay (GLC) .....	≥ 99.9 %		
Colour .....	≤ 10 hazen	Not volatile residue.....	≤ 5 ppm	<b>Retention time Atrazin to Coumaphos</b>			
Assay (GC).....	≥ 99.9 %	GC-ECD.Individual peak (Lindane) .....	≤ 3 ng/l				

Code	Size	Packaging	Notes
414930	1 l	Glass bottle	
414932	2.5 l	Glass bottle	

## Methanol > RS - SPECTROSOL - For optical spectroscopy

**RS**

Description .....	Clear liquid	Acidity .....	≤ 0.0005 meq/g	at 205 nm .....	≥ 10 %		
Colour (APHA) .....	≤ 10	Alcalinity.....	≤ 0.0002 meq/g	at 220 nm .....	≥ 50 %		
Identification .....	Positive	Assay (GLC) .....	≥ 99.9 %	at 230 nm .....	≥ 75 %		
Density at 20° C .....	0.791 ÷ 0.793	<b>Fluorescence</b>		at 240 nm .....	≥ 90 %		
Refractive index at 20°C.....	1.3280 ÷ 1.3296	at 254 nm .....	≤ 2 ppb	at 260 nm .....	≥ 98 %		
Boiling point.....	64.1 ÷ 65.1 °C	at 365 nm .....	≤ 2 ppb	Nessler test.....	Conform		
Water (K.F).....	≤ 300 ppm	<b>U.V. Transmittance</b>		Ethyl alcohol .....	≤ 200 ppm		
Residue on evaporation .....	≤ 5 ppm	Ethanol .....	≤ 200 mg/Kg	Carbonyl compounds (CO).....	≤ 20 ppm		

Code	Size	Packaging	Notes
414902	1 l	Glass bottle	
414903	2.5 l	Glass bottle	

## Methanol > RS - Anhydrous - For analysis

**RS**

Description .....	Clear liquid	Water content (K.F) .....	≤ 200 mg/Kg	Carbonyl compounds (as CH <sub>3</sub> COCH <sub>3</sub> ) .....	≤ 20 mg/Kg
Refractive index at 20°C .....	1.327 - 1.331	Residue on evaporation .....	≤ 0.001 %	Ethanol .....	≤ 100 mg/Kg
Colour (APHA) .....	≤ 10	Free acid (as HCOOH) .....	≤ 10 mg/Kg	KMnO <sub>4</sub> reducing subst. (as O) .....	≤ 2 mg/Kg
Acidity .....	≤ 0.002 %	Assay (GLC) .....	≥ 99.9 %		
Identification (IR) .....	Conform	Free alkali (as NH <sub>3</sub> ) .....	≤ 1 mg/Kg		

Code	Size	Packaging	Notes
P0931010	200 ml	Bottle with septum	
414981	1 l	Glass bottle	
P0931016	1 l	Glass bottle	
P0931021	2.5 l	Glass bottle	

## Methanol > RS - VLSI For electronic use

**RS**

Code	Size	Packaging	Notes
527641	1 l	Plastic bottle	
527640	2.5 l	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**

## Methanol > RS - RSE - For electronic use

**RS**

Description .....	Clear liquid	Chloride .....	≤ 0.2 ppm	Ca .....	≤ 0.5 ppm	Ni .....	≤ 0.01 ppm
Colour (APHA) .....	≤ 10	Carbonyl Compounds (CO) .....	≤ 5 ppm	Cd .....	≤ 0.005 ppm	Pb .....	≤ 0.01 ppm
Identification .....	Positive	Phosphate .....	≤ 0.5 ppm	Co .....	≤ 0.01 ppm	Pt .....	≤ 0.05 ppm
Water miscibility .....	Conform	Heavy metals (Pb) .....	≤ 0.2 ppm	Cr .....	≤ 0.01 ppm	Sb .....	≤ 0.01 ppm
Ready carbonizable substances .....	Conform	Subst. reducing KMnO <sub>4</sub> .....	≤ 2.5 ppm	Cu .....	≤ 0.01 ppm	Sn .....	≤ 0.02 ppm
Assay (GLC) .....	≥ 99.9 %	Total sulphur .....	≤ 1 ppm	Fe .....	≤ 0.1 ppm	Sr .....	≤ 0.02 ppm
Resistivity .....	≥ 0.5 Mohm.cm	Ag .....	≤ 0.2 ppm	Ga .....	≤ 0.02 ppm	Ti .....	≤ 0.05 ppm
Density at 20° C .....	0.791 ÷ 0.793	Al .....	≤ 0.05 ppm	In .....	≤ 0.02 ppm	Tl .....	≤ 0.05 ppm
Boiling point .....	64.1 ÷ 65.1 ° C	As .....	≤ 0.01 ppm	K .....	≤ 0.1 ppm	V .....	≤ 0.05 ppm
Water (K.F.) .....	≤ 500 ppm	Au .....	≤ 0.05 ppm	Li .....	≤ 0.02 ppm	Zn .....	≤ 0.01 ppm
Residue on evaporation .....	≤ 10 ppm	B .....	≤ 0.01 ppm	Mg .....	≤ 0.1 ppm	Zr .....	≤ 0.05 ppm
Acidity (formic acid) .....	≤ 15 ppm	Ba .....	≤ 0.1 ppm	Mn .....	≤ 0.01 ppm		
Alcalinity (NH <sub>3</sub> ) .....	≤ 1 ppm	Be .....	≤ 0.02 ppm	Mo .....	≤ 0.05 ppm		
Ethyl alcohol .....	≤ 200 ppm	Bi .....	≤ 0.02 ppm	Na .....	≤ 0.5 ppm		

Code	Size	Packaging	Notes
414917	1 l	Glass bottle	
414914	2.5 l	Glass bottle	

## Methanol > RS - MOS For electronic use

**RS**

Description .....	Clear liquid	Chloride .....	≤ 0.2 ppm	Ca .....	≤ 0.5 ppm	Ni .....	≤ 0.01 ppm
Colour (APHA) .....	≤ 10	Carbonyl Compounds (CO) .....	≤ 5 ppm	Cd .....	≤ 0.005 ppm	Pb .....	≤ 0.01 ppm
Identification .....	Positive	Phosphate .....	≤ 0.5 ppm	Co .....	≤ 0.01 ppm	Pt .....	≤ 0.05 ppm
Water miscibility .....	Conform	Heavy metals (Pb) .....	≤ 0.2 ppm	Cr .....	≤ 0.01 ppm	Sb .....	≤ 0.01 ppm
Ready carbonizable substances .....	Conform	Subst. reducing KMnO <sub>4</sub> .....	≤ 2.5 ppm	Cu .....	≤ 0.01 ppm	Sn .....	≤ 0.02 ppm
Assay (GLC) .....	≥ 99.9 %	Total sulphur .....	≤ 1 ppm	Fe .....	≤ 0.1 ppm	Sr .....	≤ 0.02 ppm
Resistivity .....	≥ 0.5 Mohm.cm	Ag .....	≤ 0.2 ppm	Ga .....	≤ 0.02 ppm	Ti .....	≤ 0.05 ppm
Density at 20° C .....	0.791 ÷ 0.793	Al .....	≤ 0.05 ppm	In .....	≤ 0.02 ppm	Tl .....	≤ 0.05 ppm
Boiling point .....	64.1 ÷ 65.1 ° C	As .....	≤ 0.01 ppm	K .....	≤ 0.1 ppm	V .....	≤ 0.05 ppm
Water (K.F.) .....	≤ 0.05 %	Au .....	≤ 0.05 ppm	Li .....	≤ 0.02 ppm	Zn .....	≤ 0.01 ppm
Residue on evaporation .....	≤ 10 ppm	B .....	≤ 0.01 ppm	Mg .....	≤ 0.1 ppm	Zr .....	≤ 0.05 ppm
Acidity (formic acid) .....	≤ 15 ppm	Ba .....	≤ 0.1 ppm	Mn .....	≤ 0.01 ppm		
Alcalinity (NH <sub>3</sub> ) .....	≤ 1 ppm	Be .....	≤ 0.02 ppm	Mo .....	≤ 0.05 ppm		
Ethyl alcohol .....	≤ 200 ppm	Bi .....	≤ 0.02 ppm	Na .....	≤ 0.5 ppm		

Code	Size	Packaging	Notes
414822	1 l	Glass bottle	
414821	2.5 l	Glass bottle	

## Methanol > RS - For titration according to Karl Fischer

**RS**

Description .....	Clear colourless liquid	Density at 20° C .....	0.791 ÷ 0.793	Assay (GLC) .....	≥ 99.9 %
Identification .....	Positive	Water (K.F.) .....	≤ 0.03 %		

Code	Size	Packaging	Notes
414881	1 l	Glass bottle	
414883	2.5 l	Glass bottle	

## Methanol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear liquid	Residue on evaporation .....	≤10 ppm	B .....	≤0.02 ppm	Mn .....	≤0.01 ppm
Colour (APHA) .....	≤10	Acidity .....	≤ 0.0003 meq/g	Ba .....	≤0.1 ppm	Ni .....	≤0.01 ppm
Identification (I.R.) .....	Conform	Alkalinity .....	≤ 0.00006 meq/g	Ca .....	≤0.5 ppm	Pb .....	≤0.01 ppm
Water miscib. (15:40) .....	Complete	Ethyl alcohol .....	≤100 ppm	Cd .....	≤0.05 ppm	Sn .....	≤0.1 ppm
Ready carbonizable substances.....	Conform	Chloride.....	≤0.5 ppm	Co .....	≤0.01 ppm	Zn .....	≤0.1 ppm
Density at 20° C .....	0.791 ÷ 0.793	Carbonyl Compounds (CO) .....	≤10 ppm	Cr .....	≤0.02 ppm	Assay (GLC) .....	≥99.9 %
Refractive index at 20°C. 1.3280 ÷ 1.3296		Heavy metals (Pb).....	≤0.5 ppm	Cu .....	≤0.01 ppm	Nessler test.....	Conform
Boiling point.....	64 ÷ 65 ° C	Subst. reducing KMnO4.....	≤2 ppm	Fe .....	≤0.1 ppm		
Water (K.F.) .....	≤300 ppm	Al .....	≤0.5 ppm	Mg .....	≤0.1 ppm		

Code	Size	Packaging	Notes
414814	1 l	Glass bottle	
414819	1 l	Plastic bottle	
414815	2.5 l	Plastic bottle	
414816	2.5 l	Glass bottle	
524102	5 l	Plastic tank	
524103	5 l	Metal tank	
414818	10 l	Plastic tank	
414813	25 l	Plastic tank	
414817	200 l	Metal drum	

## Methanol > RPE - Anhydrous - For analysis

**RPE**

Description .....	Clear liquid	Density at 20° C .....	0.791 ÷ 0.793	Acidity (formic acid) .....	≤15 ppm	Subst. reducing KMnO4 .....	≤3 ppm
Colour (APHA) .....	≤10	Refractive index at 20°C. 1.3280 ÷ 1.3297		Alkalinity (NH3).....	≤1 ppm	Cu .....	≤0.01 ppm
Identification .....	Positive	Boiling point.....	64.1 ÷ 65.1 ° C	Ethyl alcohol .....	≤200 ppm	Ni .....	≤0.01 ppm
Water miscib. (15:40) .....	Complete	Water (K.F.) .....	≤0.01 %	Carbonyl Compounds (CO) .....	≤5 ppm	Assay (GLC) .....	≥99.9 %
Ready carbonizable substances.....	Conform	Residue on evaporation .....	≤10 ppm	Heavy metals (Pb).....	≤0.5 ppm	Nessler test.....	Conform

Code	Size	Packaging	Notes
414854	1 l	Glass bottle	
414855	2.5 l	Glass bottle	

## Methanol > ERBApharm - According to pharmacopoeia : DAB-NF-Ph.Eur.

**ERBApharm**

Description .....	Clear colourless liquid	Alkalinity (NH3).....	≤1 ppm	Acetone and aldehydes .....	≤ 20 ppm	At 290 nm .....	≤ 0.01 AU
Colour .....	≤ 10 APHA	Distillation range .....	64 ÷ 65 ° C	Ethyl alcohol .....	≤ 100 ppm	Absorbance UV curve .....	Smooth Ph.Eur.
Identification .....	Positive	Water (K.F.) .....	≤ 300 ppm	Heavy metals and Zn .....	≤2 ppm	Benzene .....	≤ 2 ppm(v/v)
Density at 20° C .....	0.791 ÷ 0.793	Residue on evaporation .....	≤10 ppm	Fe .....	≤1 ppm	Organic volatile impurities Conform USP-NF	
Refractive index at 20°C.....	1.328 ÷ 1.330	Ready oxidizable substances.....	Conform	<b>Absorbance UV (1cm, ref. water)</b>		Related substances (CPG) .....	Pass test
Acidity .....	Conform DAB	USP-NF		At 230 nm .....	≤ 0.15 AU	Assay (GLC) .....	≥99.9 %
Acidity or alkalinity.....	Pass test Ph.Eur.	Ready carbonizable substances.....	Conform	At 250 nm .....	≤ 0.05 AU	Origin (BSE/TSE).....	Synthesis
Acidity (formic acid).....	≤ 10 ppm	USP-NF		At 270 nm .....	≤ 0.02 AU	Residual solvents (Current ICH).....	Conform
		Acetone.....	≤10 ppm				

Code	Size	Packaging	Notes
309204	1 l	Glass bottle	
309203	2.5 l	Glass bottle	
309201	25 l	Plastic tank	
529100	200 l	Metal drum	

## Methanol > RE - Pure

**RE**

Description .....	Clear colourless liquid	Density at 20° C .....	0.791 ÷ 0.793	Residue on evaporation .....	≤50 ppm	Subst. reducing KMnO4 .....	≤3 ppm
Identification .....	Positive	Refractive index at 20°C. 1.3278 ÷ 1.3298		Acidity (formic acid) .....	≤20 ppm	Assay (GLC) .....	≥99.9 %
Colour .....	≤10 APHA	Boiling point.....	64.1 ÷ 65.1 ° C	Water (K.F.) .....	≤0.05 %		

Code	Size	Packaging	Notes
309004	1 l	Glass bottle	
309001	2.5 l	Glass bottle	
528101	5 l	Plastic tank	
309008	10 l	Plastic tank	
309002	25 l	Plastic tank	
309009	160 kg	Metal drum	
309000	200 l	Metal drum	



### Methanol + 0.1% v/v formic acid

Metanolo + 0.1% v/v acido formico • Méthanol + 0.1% v/v acide formique • Metanol + 0.1% v/v acido formico

CH<sub>3</sub>OH

Molecular Weight: 32,04

CAS: 67-56-1

#### Classification transport

ONU: 1992

Transport Hazard class: 3

Packing group II



#### Danger

H225-H301-H331-H370

P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### Methanol + 0.1% v/v formic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid

Colour ..... ≤ 10 APHA

#### HPLC Gradient

At 254 nm ..... ≤ 10 mAU

#### Transmittance

At 230 nm ..... ≥ 10 %

Assay (CPG) ..... ≥ 99.5 %

#### Test LC-MS TIC (100-2000m/z)

Sensitive Impurities (reserpine) ..... ≤ 100 ppb

#### Metals content

Na ..... ≤ 2 ppm

Ca ..... ≤ 0.5 ppm

Mg ..... ≤ 0.5 ppm

K ..... ≤ 0.5 ppm

#### Raw material used

Methanol LC-MS (code 414830) ..... Batch number

Formic acid 98-99% (code 405820) ..... Batch number

Code	Size	Packaging	Notes
414861	1 l	Glass bottle	
414862	2.5 l	Glass bottle	



### Methanol + 0.1% v/v trifluoroacetic acid

Metanolo + 0.1% v/v acido trifluoroacetico • Méthanol + 0.1% v/v acide trifluoroacétique • Metanol + 0.1% v/v acido trifluoroacético

CH<sub>3</sub>OH

Molecular Weight: 32,04

CAS: 67-56-1

#### Classification transport

ONU: 1230

Transport Hazard class: 3

Packing group II



#### Danger

H225-H301-H311-H331-H370

P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### Methanol + 0.1% v/v trifluoroacetic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid

Assay (GC) (without TFA) ..... ≥ 99.9 %

Trifluoroacetic acid content 0.095 - 0.105 % (V/V)

Water (K.F.) ..... ≤ 500 ppm

Residue on evaporation ..... ≤ 2 ppm

#### UV transmittance (1 cm, ref. water)

At 225 nm ..... ≥ 20 %

At 240 nm ..... ≥ 50 %

At 250 nm ..... ≥ 80 %

At 260 nm ..... ≥ 95 %

#### Fluorescence (quinine)

At 254 nm ..... ≤ 1 ppb

At 365 nm ..... ≤ 1 ppb

#### HPLC gradient

Drift at 254 nm ..... ≤ 40 mAU

#### Test LC-MS TIC (50-2000m/z) ES I(+)

Sensitive Impurities (reserpine) ..... ≤ 50 ppb

#### Metals compounds

Al ..... ≤ 30 ppb

Fe ..... ≤ 100 ppb

Na ..... ≤ 50 ppb

Ca ..... ≤ 50 ppb

Mg ..... ≤ 30 ppb

K ..... ≤ 50 ppb

Code	Size	Packaging	Notes
414871	1 l	Glass bottle	
414872	2.5 l	Glass bottle	



### Methanol, hydrochloric

Metanolo, cloridrico • Méthanol - chlorhydrique • Metanol, clorhidrico

CH<sub>3</sub>OH

Molecular Weight: 32,04

CAS: 67-56-1

#### Classification transport

ONU: 2929

### Methanol, hydrochloric > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611053203	100 ml	Glass bottle	Ref Ph.Eur 1053203



## Methanol-d4

Alcole metilico-d4 • Méthanol-d4 • Metanol-d4

Synonym:  
Tetradeteromethanol

CD<sub>3</sub>OD  
Molecular Weight: 36,07  
CAS: 811-98-3  
EEC-N: 212-378-6

**Classification transport**  
ONU: 1230  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H311-H331-H370  
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### Methanol-d4 > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5280	10 x 0.6 ml	Glass ampoule	
P5289	10 x 0.75 ml	Glass bottle	
P5283A	5 ml	Glass ampoule	
P5284	5 x 10 ml	Glass ampoule	
P5284S	5 x 10 ml	Bottle with septum	
P5285	25 ml	Glass bottle	

### Methanol-d4 > RS - For NMR - min 99.96%

RS

Code	Size	Packaging	Notes
P5310	10 x 0.6 ml	Glass ampoule	
P5319	10 x 0.75 ml	Glass ampoule	



## Methanol-d4 + 0.03% TMS

Alcole metilico-d4 + 0.03% TMS • Méthanol-d4 + 0.03% TMS • Metanol-d4 + 0.03% TMS

Synonym:  
Tetradeteromethanol

CD<sub>3</sub>OD  
Molecular Weight: 36,07  
CAS: 811-98-3  
EEC-N: 212-378-6

**Classification transport**  
ONU: 1230  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H311-H331-H370  
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### Methanol-d4 + 0.03% TMS > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5140	10 x 0.6 ml	Glass ampoule	



## Methanol-d3

Alcole metilico-d3 • Méthanol-d3 • Metanol-d3

Synonym:  
1,1,1-Trideuteromethanol

CD<sub>3</sub>OH  
Molecular Weight: 35,02  
CAS: 1849-29-2  
EEC-N: 217-435-9

**Classification transport**  
ONU: 1230  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H311-H331-H370  
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### Methanol-d3 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5309	10 x 0.75 ml	Glass ampoule	



## Methanol-d1

Alcole metilico-d1 • Méthanol-d1 • Metanol-d1

Synonym:  
Methan(ol-d)  
Methyl alcohol-OD

CH<sub>3</sub>OD  
Molecular Weight: 33,05  
CAS: 1455-13-6  
EEC-N: 215-933-0

**Classification transport**  
ONU: 1230  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H301-H311-H331-H370  
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### Methanol-d1 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5275	25 ml	Glass bottle	

**DL-Methionine**

DL-Metionina • DL-Méthionine • DL-Metionina

Synonym:

*(±)-2-Amino-4-(methylmercapto)butyric acid*  
*DL-2-Amino-4(methylthio)butanoic acid* $\text{CH}_3\text{S}(\text{CH}_2)_2\text{CHNH}_2\text{COOH}$ 

Molecular Weight: 149,21

CAS: 59-51-8

EEC-N: 200-432-1

**DL-Methionine > RPE - For analysis****RPE**

Description	White crystalline powder	Loss on drying	≤0.2 %	Heavy metals (Pb)	≤10 ppm	Fe	≤10 ppm
Identification	Positive	Ammonium	≤200 ppm	Residue on ignition	≤0.1 %	Assay (non-aqueous medium)	99.0 ÷ 101.0 % (S.S.)
pH sol, 1% in H <sub>2</sub> O	5.6 ÷ 6.1	Chloride	≤200 ppm	Sulphate	≤200 ppm		

Code	Size	Packaging	Notes
463126	250 g	Plastic bottle	

Methone ► Dimedone

4-Methoxybenzaldehyde ► Anisaldehyde

4-Methoxybenzoic acid ► Anisic acid

**2-Methoxy ethanol**

2-Metossietanolo • Glycol éthylénique monométhylether • 2-Metoxietanol

Synonym:

*Methyl glycol* $\text{CH}_2\text{OHCH}_2\text{OCH}_3$ 

Molecular Weight: 76,1

CAS: 109-86-4

EEC-N: 203-713-7

**Classification transport**

ONU: 1188

Transport Hazard class: 3

Packing group III

**Danger**

H226-H302-H312-H332-H360FD-HA26

P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

**2-Methoxy ethanol > RPE - For analysis****RPE**

Description	Clear colourless liquid	Water (K.F)	≤0.1 %	Ba	≤0.1 ppm	Mn	≤0.02 ppm
Identification (I.R.)	Conform	Residue on evaporation	≤20 ppm	Ca	≤0.5 ppm	Ni	≤0.02 ppm
Water miscibility	Conform	Acidity (acetic acid)	≤30 ppm	Cd	≤0.05 ppm	Pb	≤0.1 ppm
Benzene miscibility	Complete	Alcalinity (NH <sub>3</sub> )	≤0.85 ppm	Co	≤0.02 ppm	Sn	≤0.1 ppm
Diethyl ether miscib.	Complete	Carbonyl Compounds (CO)	≤25 ppm	Cr	≤0.02 ppm	Zn	≤0.1 ppm
Density at 20° C	0.962 ÷ 0.968	Heavy metals (Pb)	≤2 ppm	Cu	≤0.02 ppm	Assay (GLC)	≥99.5 %
Refractive index at 20° C	1.4004 ÷ 1.4044	Peroxides (H <sub>2</sub> O <sub>2</sub> )	≤10 ppm	Fe	≤1 ppm		
Boiling point	123.5 ÷ 124.5 ° C	Al	≤0.5 ppm	Mg	≤0.01 ppm		

Code	Size	Packaging	Notes
454021	1 l	Glass bottle	
454024	2.5 l	Glass bottle	
454023	25 kg	Drum	
454028	180 kg	Metal drum	

**alpha-Methoxyphenylacetic acid**

Acido alfa-metossifenilacetico • Acide alpha-méthoxyphénylacétique • Acido alfa-metoxifenilacetico

Synonym:

*MOPA**alpha-Methyl-DL-mandilic acid* $\text{C}_8\text{H}_9\text{CH}(\text{OCH}_3)\text{COOH}$ 

Molecular Weight: 166,18

CAS: 7021-09-2

EEC-N: 230-300-9

**Warning**

H315-H319-H335

P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

**alpha-Methoxyphenylacetic acid > RPE - For analysis - Reag. Ph.Eur.****RPE**

Description	Yellowish crystalline powder	Melting point	69 ÷ 71 ° C	Assay	≥99 %
Identification	Positive	Sulphated ash	≤0.05 %		

Code	Size	Packaging	Notes
407441	5 g	Glass bottle	



## Methyl acetate

Metile acetato • Méthyle acétate • Metilo acetato

CH<sub>3</sub>COOCH<sub>3</sub>  
Molecular Weight: 74,08  
CAS: 79-20-9  
EEC-N: 201-185-2

**Classification transport**  
ONU: 1231  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336-HEU066  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Methyl acetate > RS - For HPLC - Isocratic Grade

RS

Refractive index at 20°C ..... 1.359 - 1.363    Colour ..... ≤ 10 Hazen    UV Absorbance at 255 nm ..... ≤ 1 AU  
Water content (K.F.) ..... ≤ 500 mg/Kg    Assay (GC) ..... ≥ 99.5 %    UV Absorbance at 275 nm ..... ≤ 0.1 AU  
Non volatile residue ..... ≤ 10 mg/Kg    Free acid (as CH<sub>3</sub>COOH) ..... ≤ 25 mg/Kg    UV Absorbance at 300 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
P0043721	2.5 l	Glass bottle	

### Methyl acetate > RPE - For analysis

RPE

Description ..... Clear liquid    Identification ..... Positive    Water (K.F.) ..... ≤ 0.1 %  
Colour (APHA) ..... ≤ 10    Density at 20° C ..... 0.930 ÷ 0.936    Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
462017	1 l	Glass bottle	

### Methyl acetate > RE - Pure

RE

Refractive index at 20°C ..... 1.359 - 1.363    Non volatile residue ..... ≤ 50 mg/Kg    Assay (GC) ..... ≥ 99 %    Free acid (as CH<sub>3</sub>COOH) ..... ≤ 50 mg/Kg  
Water content (K.F.) ..... ≤ 300 mg/Kg    Colour ..... ≤ 10 Hazen    Methanol ..... ≤ 0.1 %

Code	Size	Packaging	Notes
P0040228	5 l	Plastic tank	
P0040240	10 l	Metal tank	
P0040248	25 l	Drum	
P0040268	200 l	Metal drum	

## Methyl alcohol ▶ Methanol



## 4-Methylaminophenol sulfate

Bis (4-idrossi-N-metilaniolino) solfato • 4-Méthylaminophénol sulfate • 4-Metil aminofenol sulfato

Synonym:  
Metol

(CH<sub>3</sub>NHC<sub>6</sub>H<sub>4</sub>OH)<sub>2</sub>·H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 344,39  
CAS: 55-55-0  
EEC-N: 200-237-1

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
H302-H317-H373-H410  
P264-P273-P260-P280g-P314-P330

### 4-Methylaminophenol sulfate > RPE - For analysis - ACS

RPE

Description ..... beige crystalline powder    Suit.for phosphate det. .... Conform    Assay (oxidimetric) ..... ≥ 98.5 %  
Identification ..... Positive    Residue on ignition ..... ≤ 0.15 %

Code	Size	Packaging	Notes
461805	250 g	Plastic bottle	



## Methyl benzoate

Metile benzoato • Méthyle benzoate • Metilo benzoato

C<sub>6</sub>H<sub>5</sub>COOCH<sub>3</sub>  
Molecular Weight: 136,15  
CAS: 93-58-3  
EEC-N: 202-259-7



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Methyl benzoate > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Refractive index at 20° C ..... 1.51 ÷ 1.52    Acidity (benzoic acid) ..... ≤ 0.12 %    Ni ..... ≤ 0.2 ppm  
Identification ..... Positive    Water (K.F.) ..... ≤ 0.1 %    Cu ..... ≤ 0.2 ppm    Pb ..... ≤ 0.2 ppm  
Density at 20° C ..... 1.086 ÷ 1.090    Residue on evaporation ..... ≤ 100 ppm    Fe ..... ≤ 0.5 ppm    Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
462207	1 l	Glass bottle	





### 3-Methyl-2-benzothiazolinone hydrazone hydrochloride

3-Metile-2-benzotiazolinone idrazone cloridrato • 3-Méthyl-2-benzothiazoline hydrazone chlorhydrate • 3-Metil-2-benzotiazolinona hidrazona clorhidrato

Synonym:  
2-Hydrazono-3-methylbenzothiazoline hydrochloride

$C_8H_9N_3S.HCl.H_2O$   
Molecular Weight: 233,72  
CAS: 38894-11-0

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H315-H319-H351-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P301+P310a

#### 3-Methyl-2-benzothiazolinone hydrazone hydrochloride > RPE - For analysis

RPE

Description ..... White powder      Loss on drying ..... ≤ 8 %      Assay (argentimetric) ..... ≥ 97.5 % (s.s.)  
Identification ..... Positive      Sensibilità (gruppo OH) ..... Conform

Code	Size	Packaging	Notes
462238	5 g	Glass bottle	



### Methyl blue

Blu metile • Bleu de méthyle • Azul de metilo

Synonym:  
Acid blue 93

$C_{37}H_{27}N_3Na_2O_9S_3$   
Molecular Weight: 799,8  
CAS: 28983-56-4  
EEC-N: 249-352-9

#### Methyl blue > RS - For microscopy - C.I. 42780

RS

Description ..... Red-violet crystals      Identification ..... Positive      Sensib. (pH 9.0-11.0) ..... Conform

Code	Size	Packaging	Notes
428932	25 g	Glass bottle	

**Dye for histology and microbiology**

2-Methylbutane ► Isopentane

2-Methyl-2-butanol ► tert-Amyl alcohol

3-Methyl-1-butanol ► Isoamyl alcohol



### 2-Methyl-2-butene

2-Metil-2-butene • 2-Méthylbutène-2 • 2-Metil-2-butenio

Synonym:  
β-Isoamylene

$CH_3CH:C(CH_3)_2$   
Molecular Weight: 70,13  
CAS: 513-35-9  
EEC-N: 208-156-3

**Classification transport**  
ONU: 2460  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H315-H304-H411  
P210-P241-P264-P273-P303+P361+P353-P403+P235


#### 2-Methyl-2-butene > RPE - For analysis

RPE

Description ..... Clear colourless liquid      Identification ..... Positive      Refractive index at 20°C. 1.3860 ÷ 1.3880      Assay (GLC) ..... ≥99 %

Code	Size	Packaging	Notes
418253	25 ml	Glass bottle	

Methyl cyanide ► Acetonitrile

	<b>Methylcyclohexane</b> Metilcicloesano • Méthylcyclohexane • Metilciclohexano	Synonym: Hexahidrotoluene
	<chem>CH3CH(CH2)4CH2</chem> Molecular Weight: 98,19 CAS: 108-87-2 EEC-N: 203-624-3	<b>Classification transport</b> ONU: 2296 Transport Hazard class: 3 Packing group II

### Methylcyclohexane > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C ..... 1.421 - 1.425    Non volatile residue ..... ≤ 10 mg/Kg    Aromatic compounds ..... ≤ 300 mg/Kg    Total sulphur (S) ..... ≤ 1 ppm  
 Water content (K.F.) ..... ≤ 50 mg/Kg    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0581016	1 l	Glass bottle	

### Methylcyclohexane > RE - Pure

**RE**

Description ..... Clear liquid    Boiling point ..... 100.15 ÷ 100.65 °C    Water (K.F.) ..... ≤ 0.03 %    Acidity or alkalinity ..... Passes test  
 Density at 20°C ..... 0.767 ÷ 0.770    Benzene ..... ≤ 200 ppm    Residue on evaporation ..... ≤ 50 ppm  
 Refractive index at 20°C ..... 1.419 ÷ 1.427    Total sulphur (S) ..... ≤ 2 ppm    Assay (GLC) ..... ≥ 99.0 % (GLC)

Code	Size	Packaging	Notes
528264	1 l	Glass bottle	
528261	5 l	Plastic tank	
528260	25 l	Drum	
528262	200 l	Metal drum	

	<b>Methylene blue</b> Blu metilene • Bleu de méthylène • Azul de metileno	Synonym: Tetramethylthionine chloride 3,7-bis(Dimethylamino)phenazathonium chloride
	<chem>C16H18N3SCL.3H2O</chem> Molecular Weight: 373,9 CAS: 7220-79-3 EEC-N: 200-515-2	 <b>Warning</b> H302-H315-H319-H335 P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

### Methylene blue > RS - For analysis - Reag.Ph.Eur. - C.I. 52015

**RS**

Description ..... Powder green/blue    Assay (dried base) ..... 96 ÷ 101 %    As ..... ≤ 8 ppm    Pb ..... ≤ 20 ppm  
 Identification ..... Positive    Solubility ..... Clear Blue Solution    Fe ..... Passes

Code	Size	Packaging	Notes
428984	100 g	Plastic bottle	

### Methylene blue > RPE - For analysis - C.I. 52015

**RPE**

Description ..... Polvere verde blu    Identification ..... Positive    Functionality ..... Conform

Code	Size	Packaging	Notes
429982	25 g	Glass bottle	
429981	500 g	Plastic bottle	

**Redox indicator purple - colorless**

	<b>Methylene blue saturated solution</b> Blu metilene soluzione satura in alcoole etilico • Bleu de méthylène solution saturée • Azul de metileno solución saturada en alcohol etilico	Synonym: Tetramethylthionine chloride
	<chem>C16H18N3SCL</chem> Molecular Weight: 319,85 (an.) CAS: 61-73-4	<b>Classification transport</b> ONU: 1170 Transport Hazard class: 3 Packing group II

### Methylene blue saturated solution > RPE - For analysis

**RPE**

Description ..... Blue liquid    Identification ..... Positive    Density at 20° C ..... 0.809 ÷ 0.815 g/ml    Assay ..... 1.0 ÷ 1.2 % (p/v)

Code	Size	Packaging	Notes
E429031	250 ml	Glass bottle	



## Methylene blue solution 1%

Blu metilene soluzione 1% • Bleu de méthylène solution 1% • Azul de metileno solución 1%

Synonym:  
Tetramethylthionine chloride

$C_{16}H_{18}N_3SCl$  HEU210  
Molecular Weight: 319,85 (an.)  
CAS: 61-73-4

### Methylene blue solution 1% > RPE - For analysis

RPE

Description ..... Blue liquid Identification ..... Positive Density at 20° C ..... ~ 1.00 g/ml Assay (oxidimetric) ..... 0.9 ÷ 1.1 %

Code	Size	Packaging	Notes
E429011	500 ml	Plastic bottle	

## Methylene chloride ▶ Dichloromethane



## Methyl green

Verde metile • Vert de méthyle • Verde de metilo

$C_{26}H_{33}Cl_2N_3$   
Molecular Weight: 458,48  
CAS: 82-94-0



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Methyl green > RS - For microscopy - C.I. 42585

RS

Description ..... Dark red powder Identification ..... Positive

Code	Size	Packaging	Notes
491351	10 g	Glass bottle	
491352	25 g	Glass bottle	

**Dye for cytology**



## Methyl 4-hydroxybenzoate

Metile p-ossibenzoato • Méthyle p-oxybenzoate • Metilo p-oxibenzoato

Synonym:  
4-Hydroxybenzoic acid propyl ester

$HOC_6H_4COOCH_3$   
Molecular Weight: 152,15  
CAS: 99-76-3  
EEC-N: 202-785-7



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

### Methyl 4-hydroxybenzoate > ERBapharm - According to pharmacopoeia : DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.

ERBapharm

Description ..... White crystalline powder Acidity (HCl) ..... Conform Ph.Eur. Melting point ..... 125 ÷ 128 °C Origin (BSE/TSE) ..... Synthesis  
Identification ..... Positive Related substances ..... Conform Ph.Eur. Sulphated ash ..... ≤ 0.1 %  
Appearance of solution ..... Conform Ph.Eur. Organic volatile impurities Conform USP-NF Assay (acidimetric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
354007	1 kg	Plastic bottle	
354008	5 kg	Plastic jar	



## Methyl iodide

Metile ioduro • Méthyle iodure • Metilo yoduro

Synonym:  
Iodomethane

$CH_3I$   
Molecular Weight: 141,94  
CAS: 74-88-4  
EEC-N: 200-819-5

**Classification transport**  
ONU: 2644  
Transport Hazard class: 6.1  
Packing group I



### Danger

H301-H312-H331-H315-H351-H335  
P264-P271-P304+P340-P301+P310a-P308+P313-P312a

### Methyl iodide > RPE - For analysis

RPE

Description ..... Clear liquid Density at 20° C ..... 2.276 ÷ 2.284 Water (K.F.) ..... ≤ 500 ppm  
Identification ..... Positive Refractive index at 20°C ..... 1.5273 ÷ 1.5313 Residue on evaporation ..... ≤ 50 ppm  
Colour ..... ≤ 100 APHA Boiling point ..... 42.0 ÷ 43.0 °C Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
462601	50 ml	Glass bottle	
462604	250 ml	Glass bottle	

**Stabilized with silver**



## Methylisoamyl ketone

Metilisoamilchetone • Méthylisoamylcétone • Metilo isoamilcetona

Synonym:  
5-Methyl-2-hexanone  
Isobutylacetone

C <sub>7</sub> H <sub>14</sub> O	<b>Classification transport</b>
Molecular Weight: 114,19	ONU: 2302
CAS: 110-12-3	Transport Hazard class: 3
	Packing group III

### Methylisoamyl ketone > RE - Pure

RE

Refractive index at 20°C..... 1.404 - 1.408	Non volatile residue..... ≤ 50 mg/Kg	Assay (GC)..... ≥ 98 %
Water content (K.F.)..... ≤ 1000 mg/Kg	Colour..... ≤ 10 Hazen	Free acid (as CH <sub>3</sub> COOH)..... ≤ 200 mg/Kg

Code	Size	Packaging	Notes
P0900221	2.5 l	Glass bottle	



## Methyl isobutyl ketone

Metile isobutilchetone • Méthylisobutylcétone • Metilo isobutilcetona

Synonym:  
4-Methyl-2-pentanone  
MIBK

CH <sub>3</sub> COCH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	<b>Classification transport</b>
Molecular Weight: 100,16	ONU: 1245
CAS: 108-10-1	Transport Hazard class: 3
EEC-N: 203-550-1	Packing group II



### Danger

H225-H332-H319-H335-HEU066  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### Methyl isobutyl ketone > RS - Anhydrous - For analysis

RS

Refractive index at 20°C..... 1.394 - 1.398	Non volatile residue..... ≤ 10 mg/Kg	Acetone..... ≤ 0.1 %	Free acid (as CH <sub>3</sub> COOH)..... ≤ 50 mg/Kg
Density d <sub>20</sub> /20..... 0.797 - 0.805	Colour..... ≤ 10 Hazen	Mesityl and isomesityl oxide..... ≤ 0.1 %	
Water content (K.F.)..... ≤ 200 mg/Kg	Assay (GC)..... ≥ 99.5 %	4-methyl-2-pentanol..... ≤ 0.1 %	

Code	Size	Packaging	Notes
P0601016	1 l	Glass bottle	

Keep in a well-ventilated place

### Methyl isobutyl ketone > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description..... Clear liquid	Density at 20 °C..... 0.797 ÷ 0.805	Alcalinity (NH <sub>3</sub> )..... ≤10 ppm	Zn..... ≤0.1 ppm
Colour (APHA)..... ≤10	Refractive index at 20°C: 1.3930 ÷ 1.3990	Cd..... ≤0.05 ppm	Assay (GLC)..... ≥99.5 %
Identification (I.R.)..... Conform	Boiling point..... 115.7 ÷ 116.7 °C	Cu..... ≤0.1 ppm	Acetone..... ≤ 0.1 %
Alcohol miscibility..... Complete	Water (K.F.)..... ≤0.05 %	Fe..... ≤0.1 ppm	Mesityl and isomesityl oxide..... ≤ 0.1 %
Benzene miscibility..... Complete	Residue on evaporation..... ≤10 ppm	Ni..... ≤0.1 ppm	4-methyl-2-pentanol..... ≤ 0.1 %
Diethyl ether miscib..... Complete	Acidity..... ≤0.002 meq/g	Pb..... ≤0.1 ppm	

Code	Size	Packaging	Notes
461945	1 l	Glass bottle	

Keep in a well-ventilated place

### Methyl isobutyl ketone > RE - Pure

RE

Description..... Clear liquid	Refractive index at 20°C: 1.3930 ÷ 1.3990	Residue on evaporation..... ≤ 30 ppm	Acetone..... ≤ 0.1 %
Identification..... Positive	Boiling point..... 115,7 ÷ 116,7 °C	Water (K.F.)..... ≤ 1000 ppm	Colour..... ≤ 15 APHA
Density at 20°C..... 0,797 ÷ 0,805	Acidity (Acetic ac.)..... ≤ 50 ppm	Assay (GLC)..... ≥ 99.5 %	

Code	Size	Packaging	Notes
528980	5 l	Plastic tank	
528981	25 l	Drum	

Keep in a well-ventilated place



## Methyl orange

Arancio metile • Méthylorange • Naranja de metilo

Synonym:

4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid sodium salt  
Acid Orange 52

$C_{14}H_{14}N_3NaO_3S$   
Molecular Weight: 327,34  
CAS: 547-58-0  
EEC-N: 208-925-3

**Classification transport**  
ONU: 3143  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301  
P264-P270-P301+P310a-P330-P321-P405

### Methyl orange > RPE - For analysis - C.I. 13025 - ACS

RPE

Description ..... Yellow-orange powder Identification ..... Positive Colour change ..... rosso-giallo pH range ..... 3.2 ÷ 4.4 pH

Code	Size	Packaging	Notes
423504	25 g	Glass bottle	
423503	50 g	Plastic bottle	
423505	250 g	Plastic bottle	
423501	500 g	Plastic bottle	
423502	25 kg	Drum	

**Dye for microscopy (histology). Indicator acid - base (pH 3.0 ÷ 4.4)**



## Methyl Orange solution 0.1%

Arancio metile soluzione 0.1% • Méthylorange solution 0.1% • Naranja de metilo solución 0.1%

Synonym:

4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid sodium salt  
Acid Orange 52

$C_{14}H_{14}N_3NaO_3S$   
Molecular Weight: 327,34  
CAS: 547-58-0

### Methyl Orange solution 0.1% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611054802	100 ml	Plastic bottle	Solution in ethanol Ref Ph.Eur 1054802

**Colour change: pH 3.0 (red) to pH 4.4 (yellow)**

### Methyl Orange solution 0.1% > RPE - For analysis

RPE

Description ..... Orange clear liquid Identification ..... Positive Sensitivity (pH 3.1-4.4) ..... Conform Colour change ..... red-yellow

Code	Size	Packaging	Notes
E423562	500 ml	Plastic bottle	

**Acid-base indicator**



## Methyl orange mixed solution

Indicatore misto di metile arancione • Indicateur mixte au méthylorange • Naranja de metilo solución mixta

Synonym:

4-[4-(Dimethylamino)phenylazo]benzenesulfonic acid sodium salt  
Acid Orange 52

### Methyl orange mixed solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611054801	100 ml	Plastic bottle	Ref Ph.Eur 1054801

**Colour change: pH 3.0 (orange) to pH 4.4 (olive-green)**

2-Methylpentane ► Isohexane

4-Methyl-2-pentanone ► Methyl isobutyl ketone

2-Methylphenol ► o-Cresol

Methyl phenyl ketone ► Acetophenone

2-Methyl-2-propanol ► tert-Butanol

## 2-Methylpropanoic acid ► Isobutyric acid



### n-Methyl-2-pyrrolidone

n-Metile-2-pirrolidone • n-Méthyle-2-pyrrolidone • n-Metil-2-pirrolidona

Synonym:

1-Methyl-2-pyrrolidone  
NMP

C<sub>5</sub>H<sub>9</sub>NO  
CAS: 872-50-4  
EEC-N: 212-828-1



**Danger**

H315-H319-H360D-H335-HA26  
P264-P271-P304+P340-P305+P351+P338-  
P308+P313-P312a

#### n-Methyl-2-pyrrolidone > RS - Anhydrous - For analysis

**RS**

Appearance ..... Clear liquid    Refractive index at 20°C ..... 1.466 - 1.471    Assay (GC) ..... ≥ 99.8 %  
Identification ..... Conform    Colour ..... ≤ 20 Hazen    Butyrolactone ..... ≤ 500 mg/Kg  
Density d20/4 ..... 1.026 - 1.032    Water content (K.F.) ..... ≤ 200 mg/Kg    Monomethylamine ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0871010	200 ml	Bottle with septum	

#### n-Methyl-2-pyrrolidone > RS - For peptide synthesis

**RS**

Clear liquid appearance ..... Conform    Water content (K.F.) ..... ≤ 400 mg/Kg    Amines content ..... ≤ 5 mg/Kg  
Identification (IR) ..... Conform    Colour ..... ≤ 15 Hazen    Assay (GC) ..... ≥ 99.7 %  
Refractive index at 20°C ..... 1.466 - 1.471    Bromophenol blue test ..... Conform    Non volatile residue ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0873516	1 l	Glass bottle	
P0873521	2.5 l	Glass bottle	
P0873541	10 l	Plastic tank	
P0873549	25 l	Plastic tank	
P0873566	200 l	Polythene-metal drum	

#### n-Methyl-2-pyrrolidone > RPE - For analysis - ACS

**RPE**

Description ..... Clear liquid    Density at 20° C ..... 1.026 ÷ 1.032    Chloride ..... ≤ 1 ppm    Monometilamina ..... ≤ 50 ppm  
Identification ..... Positive    Refractive index at 20°C ..... 1.4670 ÷ 1.4710    Free amines (as CH<sub>3</sub>NH<sub>2</sub>) ..... ≤ 0.01 %    Assay (GLC) ..... ≥ 99.8 %  
Colour ..... ≤ 50 APHA    Water (K.F.) ..... ≤ 0.05 %    Butirrolattone ..... ≤ 500 ppm

Code	Size	Packaging	Notes
462872	1 l	Glass bottle	
462875	2.5 l	Glass bottle	
462874	23 kg	Drum	
462873	210 kg	Metal drum	

#### n-Methyl-2-pyrrolidone > RE - Pure

**RE**

Description ..... Clear liquid    Density at 20°C ..... 1.026 ÷ 1.032    Residue on evaporation ..... ≤ 50 ppm  
Identification ..... Positive    Refractive index at 20°C ..... 1.4670 ÷ 1.4710    Water (K.F.) ..... ≤ 0.1 %  
Colour ..... ≤ 50 APHA    Boiling point ..... 203.0 ÷ 205.0 °C    Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
528341	1 l	Glass bottle	
528343	2.5 l	Glass bottle	
528340	5 l	Plastic tank	
528346	25 l	Drum	

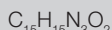


## Methyl red

Rosso metile • Rouge méthyle • Rojo de metilo

Synonym:

2-(4-Dimethylaminophenylazo)benzoic acid  
4-Dimethylaminobenzene-2'-carboxylic acid



Molecular Weight: 269,31

CAS: 493-52-7

EEC-N: 207-776-1

### Methyl red > RPE - For analysis - C.I. 13020 - ACS

RPE

Description ..... Purple powder    Melting point ..... 179 ÷ 182 °C    Appear. of alcohol sol. .... Conform    pH range ..... 4.2 - 6.2  
Identification ..... Positive    Appear of water sol. .... Conform    Colour change ..... red-yellow

Code	Size	Packaging	Notes
476882	25 g	Glass bottle	
476883	50 g	Plastic bottle	
476881	250 g	Plastic bottle	



## Methyl red solution water/ethanol 0.2%

Rosso metile soluzione 0.2% in alcole etilico • Rouge méthyle solution 0.2% dans l'éthanol • Rojo de metilo solución 0.2% en alcohol etilico

Synonym:

2-(4-Dimethylaminophenylazo)benzoic acid  
4-Dimethylaminobenzene-2'-carboxylic acid



Warning

H319

P264-P280-P305+P351+P338-P337+P313

### Methyl red solution water/ethanol 0.2% > RPE - For analysis

RPE

Description ..... Purple liquid    Identification ..... Positive    pH sensitivity ..... 4.2 ÷ 6.2    Colour change ..... yellow red

Code	Size	Packaging	Notes
E476915	250 ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 4.4 ÷ 6.2)



## Methyl red solution 0.1% in ethanol

Rosso metile soluzione 0.1% in alcole etilico • Rouge méthyle solution 0.1% dans l'éthanol • Rojo de metilo solución 0.1% en alcohol etilico

Synonym:

2-(4-Dimethylaminophenylazo)benzoic acid  
4-Dimethylaminobenzene-2'-carboxylic acid

Classification transport

ONU: 1170

Transport Hazard class: 3

Packing group II



Danger

H225-H319

P210-P241-P264-P303+P361+P353-

P305+P351+P338-P403+P235

### Methyl red solution 0.1% in ethanol > RPE - For analysis

RPE

Description ..... Purple liquid    Identification ..... Positive    pH range ..... 4.4 - 6.2

Code	Size	Packaging	Notes
E476921	250 ml	Glass bottle	

Indicator series Clark indicator acid-base (pH 4.4 ÷ 6.2)



## Methyl red solution

Rosso metile soluzione • Rouge de méthyle solution • Rojo de metilo solución

Synonym:

2-(4-Dimethylaminophenylazo)benzoic acid  
4-Dimethylaminobenzene-2'-carboxylic acid



Molecular Weight: 269,31

CAS: 493-52-7

Classification transport

ONU: 1170

Transport Hazard class: 3

Packing group II



Danger

H225-H319

P210-P241-P264-P303+P361+P353-

P305+P351+P338-P403+P235

### Methyl red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611055102	100 ml	Plastic bottle	Ref Ph.Eur 1055102

Colour change: pH 4.4 (red) to pH 6.0 (yellow)

### Methyl red solution > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000111	100 ml	Plastic bottle	Methyl red solution TS



## Methyl red mixed solution

Indicatore misto di rosso di metile • Indicateur mixte au rouge de méthyle • Rojo de metilo solución mixta

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Methyl red mixed solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611055101	100 ml	Plastic bottle	Ref Ph.Eur 1055101

Colour change: pH 5.2 (red-violet) to pH 5.6 (green)



## Methyl salicylate

Metile salicilato • Méthyle salicylate • Metilo salicilato

Synonym:

2-Hydroxybenzoic acid methyl ester

HOC6H4COOCH3

Molecular Weight: 152,15

CAS: 119-36-8

EEC-N: 204-317-7

### Classification transport

ONU: 3082  
Transport Hazard class: 9  
Packing group III



### Warning

H302-H319  
P264-P280i-P305+P351+P338-P330-P337+P313-  
P301+P312a

### Methyl salicylate > ERBApharm - According to pharmacopoeia : BP-DAB-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... Yellowish liquid    Relative density ..... 1.180 ÷ 1.186    Assay (saponification) ..... 99.0 ÷ 100.5 %    Acidity ..... Conform Ph.Eur.  
Identification ..... Positive    Refractive index at 20°C ..... 1.535 ÷ 1.538    Appearance of solution ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
354152	1 l	Glass bottle	
354155	25 kg	Plastic tank	

## Methyl sulfoxide ▶ Dimethylsulphoxide

## Methyl tert-butyl ether ▶ tert-Butylmethylether



## 2-Methyltetrahydrofuran

2-Metiltetraidrofurano • 2-Méthyltétrahydrofurane • 2-Metiltetrahydrofurano

Synonym:

Tetrahydro-2-methylfuran  
2-MeTHF

C5H10O

Molecular Weight: 86,14

CAS: 96-47-9

EEC-N: 202-507-4

### Classification transport

ONU: 2536  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H302-H318-H335-HEU019  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

### 2-Methyltetrahydrofuran > RS - For HPLC - Isocratic Grade

RS

Clear, colourless liq. appearance ..... Conform    Water content (K.F.) ..... ≤ 200 mg/Kg    UV transmittance at 240 nm ..... ≥ 30 %    UV transmittance from 310 nm ..... ≥ 98 %  
Identification ..... Conform    Non volatile residue ..... ≤ 5 mg/Kg    UV transmittance at 250 nm ..... ≥ 50 %  
Colour ..... ≤ 10 Apha    Peroxides (as H2O2) ..... ≤ 300 mg/Kg    UV transmittance at 260 nm ..... ≥ 70 %  
Refractive index at 20°C ..... 1.404 - 1.408    Assay (GC) ..... ≥ 99.5 %    UV transmittance at 280 nm ..... ≥ 90 %

Code	Size	Packaging	Notes
412681	1 l	Glass bottle	
412682	2.5 l	Glass bottle	

### 2-Methyltetrahydrofuran > RE - Pure

RE

Refractive index at 20°C ..... 1.404 - 1.408    Assay (GC) ..... ≥ 99.9 %    Peroxides (as H2O2) ..... ≤ 100 mg/Kg  
Water content (K.F.) ..... ≤ 300 mg/Kg    Stabilizer (ionol) ..... 150 - 400 mg/Kg

Code	Size	Packaging	Notes
P9960216	1 l	Glass bottle	
P9960221	2.5 l	Glass bottle	
P9960229	5 l	Plastic tank	
P9960248	25 l	Drum	
P9960268	200 l	Metal drum	



**4-Methyltetrahydropyran**

4-Metiltetraidropirano • 4-Méthyltétrahydropyrane • 4-Metiltetrahidropirano

C<sub>6</sub>H<sub>12</sub>O

Molecular Weight: 100.16

CAS: 4717-96-8

EEC-N: 225-207-5

**Classification transport**

ONU: 3271

Transport Hazard class: 3

Packing group II

**Danger**

H225-H302

P210-P241-P264-P243-P303+P361+P353-

P403+P235

**4-Methyltetrahydropyran > RE - Pure****RE**

Appearance ..... Clear colourless liquid    Colour ..... ≤ 10 Hazen    Density d20/4 ..... 0.855 - 0.865    Assay (GC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
P9990218	500 ml	Glass bottle	
P9990216	1 l	Glass bottle	
P9990221	2.5 l	Glass bottle	

**Methylthymol blue sodium salt**

Blu metiltimolo sale sodico • Bleu de méthylthymol sel de sodium • Azul de metiltimol sal sódica

Synonym:

3,3'-Bis[*n,n*-di(carboxymethyl)aminomethyl  
thymolsulfonephthalein sodium saltC<sub>37</sub>H<sub>40</sub>O<sub>15</sub>N<sub>2</sub>Na<sub>4</sub>S

Molecular Weight: 844,76

CAS: 1945-77-3

EEC-N: 217-743-3

**Warning**

H315-H319-H335

P264-P271-P280-P304+P340-P305+P351+P338-

P312a

**Methylthymol blue sodium salt > RPE - For analysis****RPE**

Description ..... Greenish brown powder    Identification ..... Positive

Code	Size	Packaging	Notes
429021	1 g	Glass bottle	
429022	25 g	Glass bottle	

**Complexometric indicator****Methyl yellow**

Giallo metile • Jaune de méthyle • Amarillo de metilo

Synonym:

4-(Dimethylamin)azobenzene  
N,N-Dimethyl-4-(phenylazo)aniline(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>N:NC<sub>6</sub>H<sub>5</sub>

Molecular Weight: 225,29

CAS: 60-11-7

EEC-N: 200-455-7

**Classification transport**

ONU: 3143

Transport Hazard class: 6.1

Packing group III

**Danger**

H301-H317

P264-P261-P280g-P301+P310a-P330-P333+P313

**Methyl yellow > RPE - For analysis - C.I. 11020****RPE**Description ..... Yellow orange powder    pH range ..... 2.9 - 4.0    Colour change ..... Red - yellow  
Identification ..... Positive    Loss on drying ..... ≤3 %

Code	Size	Packaging	Notes
444552	25 g	Glass bottle	

**Acid-base indicator (pH 2.9 ÷ 4.0)**



## Melting point standards

Punto di fusione standard • Standards de point de fusion • Patrones de puntos de fusión

Synonym:  
1,3,7-Trimethylxanthine

CH<sub>3</sub>CONHC<sub>8</sub>H<sub>5</sub>  
Molecular Weight: 135.17  
CAS: 103-84-4  
EEC-N: 203-150-7



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Melting point standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540001	1 g	Bottle	Benzophenone 47 to 49°C
540002	1 g	Bottle	p-Nitrotoluene 52 to 54°C
540003	1 g	Bottle	Vanillin 81 to 83°C
540004	1 g	Bottle	Benzoic Acid 121 to 123°C
540005	1 g	Bottle	Phenacetin 133 to 135°C
540006	1 g	Bottle	Salicylic Acid 158 to 160°C
540007	1 g	Bottle	Sulfanilamide 164 to 166°C
540008	1 g	Bottle	Caffeine 235 to 238°C
540009	1 g	Bottle	Carbazole 243 to 247°C
540010	1 g	Bottle	Anthraquinone 283 to 286°C
540014	1 g	Bottle	Acetanilide 113 to 116°C
540011	3 x 1g	Bottle	Set Sulphanilamide Caffeine Vanillin
540012	3 x 1g	Bottle	Set Benzophenone (47-49°C) Benzoic Acid (121-123°C) Anthraquinone (283-286°C)
540013	3 x 1g	Bottle	Set Vanillin (81-83°C) Phenacetin (134-136°C) Caffeine (235-237°C)

### Mineral oil ► Paraffin oil



## Mixture C.H.M.

Miscela C.H.M. • Mélange CHM • Mezcla C.H.M.

**Classification transport**  
ONU: 1228  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H302-H311-H331-H315-H319-H351-H361d-  
H336-H372-H410-HEU301  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P305+P351+P338-P403+P235

### Mixture C.H.M. > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Density at 20°C ..... 1.070 ÷ 1.080    Assay (GLC) ..... Conform

Code	Size	Packaging	Notes
524411	2.5 l	Glass bottle	
524412	5 l	Plastic tank	

**Composition: Chloroforme stab. Amylene : 49%(v/v) n-Heptane : 49%(v/v) Methanol : 2%(v/v)**

**Mix Diethyl ether/Ethanol 70/30 (w/w)**

Miscela alcole-etere 30/70 (p/p) • Mélange alcool/ether 30/70 (m/m) • Mezcla alcohol-éter 30/70 (p/p)

**Classification transport**ONU: 1993  
Transport Hazard class: 3  
Packing group II**Danger**H225-H319-H336-HEU019  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235**Mix Diethyl ether/Ethanol 70/30 (w/w) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 0.740 ÷ 0.750

Code	Size	Packaging	Notes
463251	1 l	Glass bottle	
463255	2.5 l	Glass bottle	

**Contains Phenolphthalein****Mix Diethyl ether / Ethanol absolute 50/50 (w/w)**

Miscela Etere Etílico / Etanolo assoluto 50/50 (p/p) • Mélange Ether Ethylique / Ethanol absolu 50/50 (m/m) • Mezcla Eter Etílico / Etanol absoluto 50/50 (p/p)

**Classification transport**ONU: 1993  
Transport Hazard class: 3  
Packing group I**Danger**H224-H319-H336-HEU019  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235**Mix Diethyl ether / Ethanol absolute 50/50 (w/w) > RE - Pure****RE**

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA

Code	Size	Packaging	Notes
529311	5 l	Aluminium can	

**Mix Diethyl Ether / Ethanol 50/50 (v/v)**

Miscela Etere Etílico / Etanolo 50/50 (v/v) • Mélange Ether Ethylique / Ethanol 50/50 (v/v) • Mezcla Eter Etílico / Etanol 50/50 (v/v)

**Classification transport**ONU: 1993  
Transport Hazard class: 3  
Packing group I**Danger**H224-H319-H336-HEU019  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235**Mix Diethyl Ether / Ethanol 50/50 (v/v) > RE - Pure****RE**

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Density at 20°C ..... ~ 0.757

Code	Size	Packaging	Notes
529381	5 l	Aluminium can	

**Mixture for bromine index determination**

Miscela per la determinazione dell'indice di bromo • Mélange pour indice de brome • Mezcla para la determinación de índice de bromo

**Classification transport**ONU: 2922  
Transport Hazard class: 8  
Packing group II**Danger**H226-H302-H312-H332-H314-H351-H370-H373  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235**Mixture for bromine index determination > RS - For analysis****RS**

Refractive index at 20°C ..... 1.375 - 1.379 Density d20/4 ..... 1.056 - 1.064

Code	Size	Packaging	Notes
PS0573/21	2.5 l	Glass bottle	



## Mixture for checking solderings

Miscela per il controllo delle saldature degli imballaggi • Mélange pour le contrôle des soudures des emballages • Mezcla para el control de soldaduras de envases

### Classification transport

ONU: 1219  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319-H336  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

## Mixture for checking solderings > RS - For agroalimentary analysis

RS

Description ..... Clear purple liquid Density at 20°C ..... 0.788 ÷ 0.798

Code	Size	Packaging	Notes
502671	5 l	Plastic tank	



## Mixture iodine/water/pyridine/THF

Miscela iodio/acqua/piridina/THF • Mélange iode/eau/pyridine/THF • Mezcla iodo/agua/piridina/THF

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II

## Mixture iodine/water/pyridine/THF > RPE - For analysis

RPE

Refractive index at 20°C ..... 1.409 - 1.413

Code	Size	Packaging	Notes
P0833521	2.5 l	Glass bottle	



## Mixtures for residual solvents analysis

Soluzioni standard per la ricerca di solventi residui • Mélanges pour la recherche des solvants résiduels • Mezclas para disolventes residuales analisis

## Mixtures for residual solvents analysis > RS - For analysis according to Ph. Eur. Chap. 2.4.24

RS

Code	Size	Packaging	Notes
507688	1 ml	Glass ampoule	5 elements (Class 1) : Benzene 4mg/ml; 1,2-Dichloroethane 10mg/ml; Tetrachloromethane 8mg/ml; 1,1-Dichloroethene 16mg/ml; 1,1,1-Tricloroethane 20mg/ml; Matrix : Dimethylsulphoxide
507689	1 ml	Glass ampoule	14 elements (Class 2) : Chlorobenzene 360µg/ml; Cyclohexane 3880µg/ml; cis-1,2-Dichloroethene 1870µg/ml; Dichloromethane 600µg/ml; Ethylbenzene 369µg/ml; n-Hexane 290µg/ml; Methylcyclohexane 1180µg/ml; n,n-Dimethylformamide 880µg/ml; Toluene 890µg/ml; 1,1,2-Trichloroethene 80µg/ml; m-Xylene 1302µg/ml; o-Xylene 195µg/ml; p-Xylene 304µg/ml; Tetrahydrofuran 720µg/ml; Matrix : Dimethylsulfoxide
507690	1 ml	Glass ampoule	11 elements (Class 2) : Acetonitrile 410mg/l; Chloroform 60mg/l; 1,2-Dimethoxyethane 100mg/l; n,n-Dimethylacetamide 1090mg/l; Dioxan 380mg/l; 2-Hexanone 50mg/l; Methanol 3000mg/l; Nitromethane 50mg/l; Pyridine 200mg/l; 1,2,3,4-Tetrahydronaphthalene 100mg/l; Isopropylbenzene (Cumene) 70mg/l; Matrix : Dimethylsulphoxide/ Water
507691	1 ml	Glass ampoule	6 elements (Class 2) : Ethyleneglycol-monoethyl ether (2-Ethoxyethanol) 160mg/l; Ethyleneglycol 620mg/l; Formamide 220mg/l; Ethylene glycol-monomethyl ether (2-Methoxyethanol) 50mg/l; 1-Methyl-2-pyrrolidon 4840mg/l; Sulfolan 160mg/l; Matrix : Water

## Mixtures for residual solvents analysis > RS - For analysis according to USP <467> Residual solvents

RS

Code	Size	Packaging	Notes
507692	1 ml	Glass ampoule	5 elements (Class 1) : Benzene 10mg/ml; Tetrachloromethane (Carbon tetrachloride) 20mg/ml; 1,2-Dichloroethane 25mg/ml; 1,1-Dichloroethene 40mg/ml; 1,1,1-Trichloroethane 50mg/ml; Matrix : Dimethylsulphoxide
507693	1 ml	Glass ampoule	16 elements (Class 2) : Acetonitrile 2.05mg/ml; Chlorobenzene 1.8mg/ml; Cumene 0.34mg/ml; Cyclohexane 19.4mg/ml; cis-1,2-Dichloroethene 4.7mg/ml; trans-1,2-Dichloroethene 4.7mg/ml; 1,4-Dioxan 1.9mg/ml; Ethylbenzene 1.84mg/ml; Methanol 15mg/ml; Methylcyclohexane 5.9mg/ml; Dichloromethane 3mg/ml; Tetrahydrofuran 3.6mg/ml; Toluene 4.45mg/ml; m-Xylene 6.51mg/ml; o-Xylene 0.98mg/ml; p-Xylene 1.52mg/ml; Matrix : Dimethylsulphoxide
507694	1 ml	Glass ampoule	8 elements (Class 2) : Chloroform 60µg/ml; 1,2-Dimethoxyethane 100µg/ml; n-Hexane 290µg/ml; 2-Hexanone 50µg/ml; Nitromethane 50µg/ml; Pyridine 200µg/ml; 1,2,3,4-Tetrahydronaphthalene (Tetralin) 100µg/ml; Trichloroethene 80µg/ml; Matrix : Dimethylsulphoxide

**Molecular sieves 3 A**

Setacci molecolari 3 A • Tamis moléculaire 3 A • Tamices moleculares 3 A

HEU210

**Molecular sieves 3 A > RS - Pellets 1/16"**

RS

Description ..... Beige granules Identification ..... Positive Apparent density ..... 700 ÷ 800 g/l

Code	Size	Packaging	Notes
477731	250 g	Glass bottle	

**Molecular sieves 3 A > RS - Pellets 1/8"**

RS

Description ..... Sferetti e 1/8" Identification ..... Positive

Code	Size	Packaging	Notes
477721	250 g	Glass bottle	

**Molecular sieves 3 A > RS - Pure**

RS

Code	Size	Packaging	Notes
P1810017	1 kg	Plastic bottle	

**Molecular sieves 3 A deuterated**

Setacci molecolari 3 A deuterati • Tamis moléculaire 3 A deutéré • Tamices moleculares 3 A deuterado

HEU210

**Molecular sieves 3 A deuterated > RS - For NMR**

RS

Code	Size	Packaging	Notes
P557X	5 g	Glass bottle	

**Molecular sieves 4 A**

Setacci molecolari 4 A • Tamis moléculaire 4 A • Tamices moleculares 4 A

HEU210

**Molecular sieves 4 A > RS - Pellets**

RS

Code	Size	Packaging	Notes
P1820017	1 kg	Plastic bottle	
P1820027	5 kg	Plastic bucket	
P1820057	50 kg	Fibre drum	

**Molybdenum standard solution**

Molibdeno standard soluzione • Molybdène solution standard • Molibdeno, solución patrón

**Molybdenum standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505722	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505725	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid
505723	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Molybdenum standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
503731	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide
503735	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Ammonium hydroxide
503733	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide
503737	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Ammonium hydroxide

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Molybdenum standard solution > RS - Standard solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497565	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide
507747	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
507494	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
E497561	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Ammonium hydroxide

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Molybdenum standard solution > RS - NORMEX - Concentrated solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
463431		Plastic vial	conc. 1.000 ppm Matrix : Ammonium hydroxide - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Molybdenum (VI) oxide

Anidride molibdica • Anhydride molybdique • Anhídrido molibdénico

Synonym:  
Molybdenum trioxide

MoO<sub>3</sub>

Molecular Weight: 143,94

CAS: 1313-27-5

EEC-N: 215-204-7

### Classification transport

ONU: 3288

Transport Hazard class: 6.1

Packing group III



### Warning

H319-H351-H335

P264-P271-P304+P340-P305+P351+P338-

P308+P313-P312a

## Molybdenum (VI) oxide > RPE - For analysis

**RPE**

Description ..... White, slightly yellow, green, or gray solid Chloride..... ≤ 50 ppm Sulphate..... ≤ 200 ppm  
 Identification ..... Positive Phosphate ..... ≤ 5 ppm Fe ..... ≤ 50 ppm  
 Ammonium ..... ≤ 100 ppm Nitrate ..... ≤ 100 ppm Assay (oxidimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
422004	100 g	Glass bottle	
422005	250 g	Glass bottle	

## Molybdophosphoric acid ► Phosphomolybdic acid



## Molybdovanadic reagent

Reattivo molibdovanadico • Réactif molybdovanadique • Reactivo molibdenovanádico

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group III



### Danger

H314-H318

P264-P280-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

## Molybdovanadic reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611056700	100 ml	Plastic bottle	Ref Ph.Eur 1056700

## Mordant Black 11 ► Eriochrome black T

Mordant Blue 29 ► Chromazurol S

Mordant Red 11 ► Alizarin

**Morin**

Morina • Morine • Morina

$C_{15}H_{10}O_7 \cdot 2H_2O$   
 Molecular Weight: 338,27  
 CAS: 6472-38-4  
 EEC-N: 207-542-9

**Morin > RPE - For analysis - C.I. 75660****RPE**

Description ..... Brown powder    Identification ..... Positive    Residue on ignition ..... ≤ 1 %    Aluminium sensitivity ..... ~ 1 µg/ml

Code	Size	Packaging	Notes
463508	5 g	Glass bottle	
463509	25 g	Glass bottle	

**Reagent for the determination of Al****Morpholine**

Morfolina • Morpholine • Morfolina

Synonym:

Tetrahydro-1,4-oxazine

$NH(CH_2)_2OCH_2CH_2$   
 Molecular Weight: 87,12  
 CAS: 110-91-8  
 EEC-N: 203-815-1

**Classification transport**

ONU: 2054  
 Transport Hazard class: 8  
 Packing group I

**Danger**

H226-H302-H312-H332-H314  
 P210-P241-P264-P301+P330+P331-  
 P303+P361+P353-P304+P340-P305+P351+P338-  
 P403+P235

**Morpholine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... Clear liquid    Identification ..... Positive    Boiling point ..... 126.0 ÷ 130.0 °C  
 Colour (APHA) ..... ≤ 10    Assay (acidimetric) ..... ≥ 99.0 %    Density at 20°C ..... ~ 1.01

Code	Size	Packaging	Notes
463453	1 l	Glass bottle	

**Multianions standard for ion chromatography**

Standard multianione per cromatografia ionica • Etalon multiéléments pour chromatographie ionique • Patrón multielementos para cromatografía iónica

**Classification transport**

ONU: 3264  
 Transport Hazard class: 8  
 Packing group II

**Multianions standard for ion chromatography > RS - Standard solution according to EPA method****RS**

Code	Size	Packaging	Notes
504526	100 ml	Plastic bottle	7 elements : Br-, Cl-, NO <sub>3</sub> -, NO <sub>2</sub> -, PO <sub>4</sub> 3-, SO <sub>4</sub> 2-, F- 1g/l each - Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Multianions standard for ion chromatography > RS - Quality control standard solution****RS**

Code	Size	Packaging	Notes
504527	100 ml	Plastic bottle	7 elements : Br- 100ppm, SO <sub>4</sub> 2- 150ppm, PO <sub>4</sub> 3- 50ppm, Cl- 30ppm, NO <sub>2</sub> - 30ppm, NO <sub>3</sub> - 20ppm, F- 20 ppm - Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Multielement standard for ICP

Standard multielemento per ICP • Etalon multiéléments pour ICP • Patrón multielementos para ICP

### Multielement standard for ICP > RS - For analysis according to USP <2232> WK Dietary supplement

RS

Code	Size	Packaging	Notes
506120	100 ml	Plastic bottle	4 elements : Cd 5mg/l; Pb 10mg/l; As 15mg/l; Hg 15mg/l. Matrix : 7% HNO <sub>3</sub>

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

### Multielement standard for ICP > RS - For analysis according to USP <232> Oral elemental impurities

RS

Code	Size	Packaging	Notes
506110	100 ml	Plastic bottle	8 elements : Cd 25mg/l; Pb 5mg/l; As 1.5mg/l; Hg 15mg/l; Mo 100mg/l; Ni 500mg/l; V 100mg/l; Cu 1000mg/l. Matrix : 7% HNO <sub>3</sub>
506150	100 ml	Plastic bottle	Precious metals - 6 elements : Ir 100 mg/l, Pt 100 mg/l; Os 100 mg/l; Rh 100 mg/l; Pd 100 mg/l; Ru 100 mg/l. Matrix : 15% HCl

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

### Multielement standard for ICP > RS - For analysis according to USP <232> Parenteral elemental impurities

RS

Code	Size	Packaging	Notes
506130	100 ml	Plastic bottle	Precious metals - 6 elements : Ir 10 mg/l, Pt 10 mg/l; Os 10 mg/l; Rh 10 mg/l; Pd 10 mg/l; Ru 10 mg/l. Matrix : 15% HCl
506140	100 ml	Plastic bottle	8 elements : Cd 2.5mg/l; Pb 5mg/l; As 1.5mg/l; Hg 1.5mg/l; Mo 10mg/l; Ni 50mg/l; V 10mg/l; Cu 100mg/l. Matrix : 7% HNO <sub>3</sub>

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

### Multielement standard for ICP > RS - Optimisation solution

RS

Code	Size	Packaging	Notes
504396	500 ml	Plastic bottle	13 elements : Al, Mg, Cr, Mn, Cu, Rh, In, Cd, Ce, Pb, Th, B, Ba 0,01mg/ml each - Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

### Multielement standard for ICP > RS - Quality control standard solution

RS

Code	Size	Packaging	Notes
504350	100 ml	Plastic bottle	22 elements : As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix : Nitric acid
504354	100 ml	Plastic bottle	33 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Nb, Ni, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 1ppm each - Matrix : Nitric acid
504356	100 ml	Plastic bottle	40 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, Ga, Ge, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Pd, Rb, Sb, Se, Sn, Sr, Ta, Ti, Tl, U, V, W, Zn, Zr 1ppm each - Matrix : Nitric acid
504351	500 ml	Plastic bottle	22 elements : As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix : Nitric acid
504353	500 ml	Plastic bottle	28 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix : Nitric acid
504355	500 ml	Plastic bottle	33 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Nb, Ni, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 1ppm each - Matrix : Nitric acid
504357	500 ml	Plastic bottle	40 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, Ga, Ge, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Pd, Rb, Sb, Se, Sn, Sr, Ta, Ti, Tl, U, V, W, Zn, Zr 1ppm each - Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Multielement standard for ICP > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
504301	100 ml	Plastic bottle	6 elements : Au, Ir, Pb, Pt, Rh, Ru 100ppm each - Matrix : Nitric acid
504303	100 ml	Plastic bottle	16 elements : Al, As, Ba, Be, Bi, Ca, Cs, Ga, In, K, Li, Mg, Na, Rb, Se, Sr 100ppm each - Matrix : Nitric acid
504305	100 ml	Plastic bottle	13 elements : Ag, Cd, Co, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Tl, V, Zn 100ppm each - Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Multielement standard for ICP > RS - Calibrating solution

**RS**

Code	Size	Packaging	Notes
504306	100 ml	Plastic bottle	22 elements : As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix : Nitric acid
504308	100 ml	Plastic bottle	28 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix : Nitric acid
504310	100 ml	Plastic bottle	33 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 100ppm - Matrix : Nitric acid
504312	100 ml	Plastic bottle	9 elements : Au, Ir, Os, Pb, Pt, Rh, Ru, Sn, Te 100ppm each - Matrix : Hydrochloric acid
504307	500 ml	Plastic bottle	22 elements : As, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix : Nitric acid
504309	500 ml	Plastic bottle	28 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 100ppm each - Matrix : Nitric acid
504311	500 ml	Plastic bottle	33 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Cd, Co, Cs, Cr, Cu, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, U, V, Zn 100ppm each - Matrix : Nitric acid
504313	500 ml	Plastic bottle	9 elements : Au, Ir, Os, Pb, Pt, Rh, Ru, Sn, Te 100ppm each - Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Multielement standard for ICP and ICP-MS

Standard multielemento per ICP e ICP-MS • Etalon multiéléments pour ICP et ICP-MS • patrón multielementos para ICP e ICP-MS

### Classification transport

ONU: 3264  
 Transport Hazard class: 8  
 Packing group II

## Multielement standard for ICP and ICP-MS > RS - Solution de Tuning pour ICP-MS

**RS**

Code	Size	Packaging	Notes
504392	100 ml	Plastic bottle	9 elements : Be, Mg, Co, In, Rh, Ce, Ba, Pb, U 10ppm each - Matrix : Nitric acid
504393	100 ml	Plastic bottle	13 elements : Ba, Be, Bi, Ce, Cu, Ho, In, Li, Mg, Pb, Tl, U, Y 10ppm each - Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Multielement standard for ICP and ICP-MS > RS - Quality control standard solution

**RS**

Code	Size	Packaging	Notes
504352	100 ml	Plastic bottle	28 elements : Al, Ag, As, B, Ba, Be, Bi, Ca, Ce, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn 1ppm each - Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Murexide

Muresside • Murexide • Murexida

Synonym:

5,5'-Nitrilodibarbituric acid monoammonium salt



Molecular Weight: 284,19

CAS: 3051-09-0

EEC-N: 221-266-6

### Murexide > RPE - For analysis - C.I. 56085

**RPE**

Description ..... Red violet powder      Identification ..... Positive      Loss on drying ..... ≤10 %      Residue on ignition ..... ≤0.5 %

Code	Size	Packaging	Notes
463608	5 g	Glass bottle	
463609	25 g	Glass bottle	

**Complexometric indicator**



## Naphthalene

Naftalene • Naphtalène • Naftaleno

$C_{10}H_8$   
Molecular Weight: 128,17  
CAS: 91-20-3  
EEC-N: 202-049-5

**Classification transport**  
ONU: 1334  
Transport Hazard class: 4.1  
Packing group III



**Warning**  
H302-H351-H410  
P264-P273-P280-P308+P313-P330-P301+P312a

### Naphthalene > RPE - For analysis

**RPE**

Description ..... White flakes Identification ..... Positive Melting point .....  $79 \div 82 \text{ }^\circ\text{C}$  Assay (GLC) .....  $\geq 98.5 \%$

Code	Size	Packaging	Notes
463654	100 g	Plastic bottle	
463655	250 g	Plastic bottle	
463651	1 kg	Plastic bottle	



## 1-Naphthol

1-Naftolo • 1-Naphtol • 1-Naftol

Synonym:  
*1-Hydroxynaphthalene*

$C_{10}H_7OH$   
Molecular Weight: 144,17  
CAS: 90-15-3  
EEC-N: 201-969-4



**Danger**  
H302-H312-H315-H318-H335  
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

### 1-Naphthol > RPE - For analysis

**RPE**

Description ..... Grey-brown flakes Identification ..... Positive Melting point .....  $94 \div 98 \text{ }^\circ\text{C}$  Assay (GLC) .....  $\geq 97.5 \%$

Code	Size	Packaging	Notes
463935	250 g	Plastic bottle	

### 1-Naphthol > RE - Pure

**RE**

Description ..... White pinkish crystals Melting point .....  $94 \div 98 \text{ }^\circ\text{C}$  Assay (GLC) .....  $\geq 98 \%$   
Identification ..... Positive á-Naphthole .....  $\leq 1 \%$

Code	Size	Packaging	Notes
354751	250 g	Plastic bottle	



## 2-Naphthol

2-Naftolo • 2-Naphtol • 2-Naftol

Synonym:  
*2-Hydroxynaphthalene*

$C_{10}H_7OH$   
Molecular Weight: 144,17  
CAS: 135-19-3  
EEC-N: 205-182-7



**Warning**  
H302-H332-H400  
P264-P273-P271-P261-P304+P340-P330

### 2-Naphthol > RPE - For analysis - C.I. 37500

**RPE**


Description ..... Flakes pinky Identification ..... Positive Melting point .....  $\geq 120 \text{ }^\circ\text{C}$  Assay (GLC) .....  $\geq 99.0 \%$

Code	Size	Packaging	Notes
463984	100 g	Plastic bottle	
463986	500 g	Plastic bottle	

**alpha-Naphtholbenzein**  
 alfa-Naftolbenzeina • alpha-Naphtolbenzéine • alpha-Naftolbenzeína

Synonym:  
 4,4'-(alpha-Hydroxybenzylidene)di-1-naphtol

C27H18O2  
 Molecular Weight: 374,44  
 CAS: 145-50-6  
 EEC-N: 205-656-3

 **Warning**  
 H315-H319-H335  
 P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

### alpha-Naphtholbenzein > RPE - For analysis

**RPE**

Description ..... Red brown powder Identification ..... Positive Suitability for anhydrous titration ..... Conform

Code	Size	Packaging	Notes
463891	5 g	Glass bottle	

**Acid-base indicator**

**alpha-Naphtholbenzein solution 0.2% in acetic acid**  
 alfa-Naftolbenzeina soluzione 0.2% in acido acetico •  
 alpha-Naphtolbenzéine solution 0.2% dans acide acétique •  
 alfa-Naftolbenzeína solución 0.2% en acido acético

Synonym:  
 4,4'-(alpha-Hydroxybenzylidene)di-1-naphtol

C27H18O2  
 Molecular Weight: 374,44  
 CAS: 145-50-6

**Classification transport**  
 ONU: 2789  
 Transport Hazard class: 8  
 Packing group II

 **Danger**  
 H226-H314-H318  
 P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### alpha-Naphtholbenzein solution 0.2% in acetic acid > RS - For analysis according to Ph. Eur. Chap. 4.1.1


**RS**

Code	Size	Packaging	Notes
611057601	100 ml	Glass bottle	Ref Ph.Eur 1057601

**N-1-Naphtylethylenediamine dihydrochloride**  
 N-(1-Naftil)etilendiammina dicloridato • n-(1-Naphtyl)éthylènediamine dichlorhydraté • n-(1-Naftil)etilendiamina diclorhidrato

Synonym:  
 2-(1-Naphthylamino)ethylamine dihydrochloride

C10H7NHCH2CH2NH2·2HCl  
 Molecular Weight: 259,18  
 CAS: 1465-25-4  
 EEC-N: 215-981-2

 **Warning**  
 H315-H319  
 P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

### N-1-Naphtylethylenediamine dihydrochloride > RPE - For analysis

**RPE**

Description White or beige powder, crystal or chunks Identification ..... Positive Water ..... ≤ 5 % Titolo (TLC) ..... ≥ 98 %

Code	Size	Packaging	Notes
463831	10 g	Glass bottle	

**Search for sulfonamides in the blood and spectrophotometric determination of nitrites and nitrates for FIA middle**

**NDF Solution**  
 Soluzione NDF • Solution NDF • Solución NDF

 **Danger**  
 H360FD-HA26  
 P280-P201-P202-P308+P313-P405-P501a

### NDF Solution > RPE - For agroalimentary analysis

**RPE**

Description ..... Clear liquid Density at 20°C ..... 1.010 ÷ 1.025 pH at 20°C ..... 6.10 ÷ 7.10

Code	Size	Packaging	Notes
526920	2.5 l	Glass bottle	
526921	25 l	Plastic tank	

**Composition : Sodium laurylsulfate: 30 g; EDTA: 18.61 g; Sodium borate: 6.81 g; Hydrogenophosphate disodique : 4.6 g; Glycol monoethyeether : 10 ml; Water : QSP 1l according to NF V18-122**

**NDF Plus solution**

Soluzione NDF PLUS • Solution NDF PLUS • Solución NDF PLUS

HEU210

**NDF Plus solution > RPE - For agroalimentary analysis****RPE**

Appearance ..... Clear liquid

Code	Size	Packaging	Notes
526941	25 l	Plastic tank	

**Composition : Sodium laurylsulfate: 30 g; EDTA: 18.61 g; Sodium borate: 6.81 g; Hydrogenophosphate disodique : 4.6 g; Glycol monoethylether : 10 ml; Water : QSP 1l according to NF V18-122****Neocuproine**

Neocuproina • Néocuproïne • Neocuproina

Synonym:  
2,9-Dimethyl-1,10-phenanthroline  
DMPHENC<sub>14</sub>H<sub>12</sub>N<sub>2</sub>·1/2H<sub>2</sub>O  
Molecular Weight: 208,27  
CAS: 484-11-7  
EEC-N: 207-601-9**Warning**H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a**Neocuproine > RPE - For analysis****RPE**Description ..... White powder    Melting point ..... 158.5 ÷ 161.5 °C    Copper sensitivity ..... ≤0.3 µg/ml  
Identification ..... Positive    Residue on ignition ..... ≤0.1 %    Assay (non-aqueous medium) ..... ≥99 %

Code	Size	Packaging	Notes
444871	1 g	Glass bottle	
444872	25 g	Glass bottle	

**Neocuproine hydrochloride**

Neocuproina cloridrato • Néocuproïne chlorhydraté • Neocuproina cloridrato

Synonym:  
2,9-Dimethyl-1,10-phenanthroline hydrochlorideC<sub>14</sub>H<sub>12</sub>N<sub>2</sub>·HCl·H<sub>2</sub>O  
Molecular Weight: 244,72 (an.)  
CAS: 7296-20-0  
EEC-N: 230-732-8**Warning**H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a**Neocuproine hydrochloride > RPE - For analysis****RPE**

Description ..... Yellowish powder    Identification ..... Positive    Copper sensitivity ..... ≥0.3 µg/ml    Assay (non-aqueous medium) ..... ≥99 % s s

Code	Size	Packaging	Notes
444731	1 g	Glass bottle	
444732	25 g	Glass bottle	

**Neodymium standard solution**

Neodimio standard soluzione • Néodyme solution standard • Neodimio, solución patrón

**Classification transport**ONU: 3267  
Transport Hazard class: 8  
Packing group III**Neodymium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505742	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505745	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Neodymium standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
503761	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503765	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503763	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503767	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Neodymium standard solution > RS - Standard solution for AAS

**RS**

Code	Size	Packaging	Notes
507748	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507510	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Nessler's reagent single solution

Nessler reattivo soluzione unica • Réactif de Nessler solution • Nessler reattivo solución única

**Classification transport**  
 ONU: 2922  
 Transport Hazard class: 8  
 Packing group II



### Danger

H301-H314-H318-H334-H317-H341-H373-  
 H400-H412  
 P264-P273-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338-P342+P311a

## Nessler's reagent single solution > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid Identification ..... Positive Sensibilità all'azoto ..... Conform

Code	Size	Packaging	Notes
464231	500 ml	Plastic bottle	
464232	1 l	Plastic bottle	

**For the determination of ammonia and ammonium salt**



## Nessler's reagent solution A

Nessler reattivo soluzione A • Réactif de Nessler solution A • Nessler reattivo solución A

**Classification transport**  
 ONU: 3287  
 Transport Hazard class: 6.1  
 Packing group II



### Danger

H301-H310-H330-H334-H317-H411  
 P264-P273-P271-P280-P304+P340-P342+P311a

## Nessler's reagent solution A > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid Identification ..... Positive Density at 20° C ..... ≥1.2

Code	Size	Packaging	Notes
464422	500 ml	Plastic bottle	

**For the determination of nitrogen**



## Nessler's reagent solution B

Nessler reattivo soluzione B • Réactif de Nessler solution B • Nessler reattivo solución B

**Classification transport**  
 ONU: 1824  
 Transport Hazard class: 8  
 Packing group II



### Danger

H314-H318  
 P264-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

## Nessler's reagent solution B > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Assay ..... 20.50 ÷ 21.50 % (NaOH)

Code	Size	Packaging	Notes
464432	500 ml	Plastic bottle	

**For the determination of nitrogen**

**Neutral red**

Rosso neutro • Rouge neutre • Rojo neutro

Synonym:

3-Amino-7-dimethylamino-2-methylphenazine hydrochloride

C<sub>15</sub>H<sub>17</sub>ClN<sub>4</sub>

Molecular Weight: 288,78

CAS: 553-24-2

EEC-N: 209-035-8

**Classification transport**

ONU: 3143

Transport Hazard class: 6.1

Packing group III

**Warning**

H302

P264-P270-P330-P301+P312a-P501a

**Neutral red > RPE - For analysis - C.I. 50040****RPE**Description ..... Green-brown powder    Loss on drying ..... ≤ 5 %    pH range ..... 6.8 ÷ 8.0  
Identification ..... Positive    Colour change ..... red - yellow

Code	Size	Packaging	Notes
476951	10 g	Glass bottle	

**Dye for microscopy (histology, hematology). Indicator acid - base (pH 6.8 ÷ 8.0)****Nickel standard solution**

Nichel standard soluzione • Nickel solution standard • Niquel, solución patrón

**Classification transport**

ONU: 3264

Transport Hazard class: 8

Packing group III

**Danger**

H314-HEU208

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Nickel standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615002001	100 ml	Plastic bottle	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5002001
615002002	100 ml	Plastic bottle	A 0.2 ppm solution : to dilute according to Ref Ph.Eur 5002002
615002009	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002000

**Nickel standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505752	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505755	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505753	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Nickel standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503771	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503775	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503773	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503777	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Nickel standard solution > RS - Standard solution for AAS****RS**

Description ..... Green clear liquid    Identification ..... Positive    Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507749	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497575	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507487	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497571	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Nickel standard solution > RS - NORMEX - Concentrated solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
464271		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Nickel standard solution > RS - Quality control standard solution for AAS (graphite furnace)

**RS**

Code	Size	Packaging	Notes
504363	50 ml	Plastic bottle	conc. 10 +/- 1 µg/L Matrix : 2% Nitric acid



## Nickel, powder

Nichel, polvere • Nickel, poudre • Níquel, polvo

Ni  
Molecular Weight: 58,71  
CAS: 7440-02-0  
EEC-N: 231-111-4



### Danger

H317-H351-H372  
P264-P260-P280g-P308+P313-P314-P333+P313

## Nickel, powder > RPE - For analysis

**RPE**

Description ..... Polvere metallica Identification ..... Positive Assay ..... ≥ 98 %

Code	Size	Packaging	Notes
464384	100 g	Glass bottle	



## Nickel (II) acetate tetrahydrate

Nichel acetato oso esaidrato • Nickel (II) acétate tétrahydraté • Níquel (II) acetato

Synonym:

*Acetic acid nickel(II) salt*

Ni(CH<sub>3</sub>COO)<sub>2</sub>·4H<sub>2</sub>O  
Molecular Weight: 248,86  
CAS: 6018-89-9



### Warning

H302-H332-H317-H351  
P264-P271-P261-P304+P340-P308+P313-P330

## Nickel (II) acetate tetrahydrate > RPE - For analysis

**RPE**

Description ..... Green powder Cr..... ≤ 5 ppm Mn ..... ≤ 20 ppm Assay ..... 23 ÷ 24 % (Ni)  
Identification ..... Positive Cu..... ≤ 10 ppm Pb ..... ≤ 5 ppm  
Co ..... ≤ 0.2 % Fe ..... ≤ 20 ppm Zn ..... ≤ 10 ppm

Code	Size	Packaging	Notes
464474	100 g	Plastic bottle	
464476	500 g	Plastic bottle	
464477	1 kg	Plastic bottle	



## Nickel (II) ammonium sulfate hexahydrate

Nichel ammonio solfato oso • Nickel (II) ammonium sulfate hexahydraté • Níquel (II) amonio sulfato hexahidrato

Ni(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 395  
CAS: 15699-18-0  
EEC-N: 239-793-2

### Classification transport

ONU: 3077  
Transport Hazard class: 9  
Packing group III



### Danger

H302-H332-H334-H317-H341-H350i-H360D-H372-H410-HA26  
P264-P273-P271-P280-P304+P340-P342+P311a

## Nickel (II) ammonium sulfate hexahydrate > RPE - For analysis

**RPE**

Description .. Green-blue crystalline powder Nitrate ..... ≤ 100 ppm Cu ..... ≤ 10 ppm Zn ..... ≤ 20 ppm  
Identification ..... Positive Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S ..... ≤ 0.2 % Fe ..... ≤ 10 ppm Assay (complexometric) ..... 99 ÷ 100 %  
pH sol. 5% at 25° C ..... 4.3 ÷ 4.7 Ca ..... ≤ 50 ppm K ..... ≤ 200 ppm  
Chloride ..... ≤ 10 ppm Cd ..... ≤ 20 ppm Na ..... ≤ 200 ppm  
Water-insoluble matter ..... ≤ 30 ppm Co ..... ≤ 10 ppm Pb ..... ≤ 10 ppm

Code	Size	Packaging	Notes
464545	250 g	Plastic bottle	
464547	1 kg	Plastic bottle	

**Low content in cobalt**





## Nickel (II) carbonate basic

Nichel carbonato oso basico • Nickel (II) carbonate basique • Níquel (II) carbonato básico

$\text{NiCO}_3 \cdot 2\text{Ni(OH)}_2 \cdot 4\text{H}_2\text{O}$   
Molecular Weight: 376,23  
CAS: 39430-27-8  
EEC-N: 235-715-9

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
H302-H317-H351-H410  
P264-P273-P261-P280g-P308+P313-P330

### Nickel (II) carbonate basic > RPE - For analysis

**RPE**

Description ..... Green powder      Diluted HCl-ins. matter ..... ≤ 50 ppm      Fe ..... ≤ 100 ppm      Assay (complexometric) ..... ≥ 45 % (Ni)  
Identification ..... Positive      Co ..... ≤ 0.1 %      Pb ..... ≤ 50 ppm  
Chloride ..... ≤ 0.1 %      Cu ..... ≤ 50 ppm      Zn ..... ≤ 50 ppm

Code	Size	Packaging	Notes
464604	100 g	Glass bottle	
464605	1 kg	Plastic bottle	



## Nickel (II) chloride hexahydrate

Nichel cloruro oso esaidrato • Nickel (II) chlorure hexahydraté • Níquel (II) cloruro hexahidratado

$\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 237,7  
CAS: 7791-20-0  
EEC-N: 231-743-0

**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H334-H317-H351  
P264-P284-P304+P340-P342+P311a-P301+P310a-P308+P313

### Nickel (II) chloride hexahydrate > RPE - For analysis

**RPE**

Description ..... Green crystals      Sulphate ..... ≤ 50 ppm      Cu ..... ≤ 10 ppm      Zn ..... ≤ 10 ppm  
Identification ..... Positive      Ca ..... ≤ 50 ppm      Fe ..... ≤ 20 ppm      Assay (argentimetric) ..... ≥ 98 %  
pH sol. 5% at 20°C ..... 4 ÷ 6      Cd ..... ≤ 10 ppm      Na ..... ≤ 50 ppm  
Mg ..... ≤ 10 ppm      Co ..... ≤ 20 ppm      Pb ..... ≤ 10 ppm

Code	Size	Packaging	Notes
464644	100 g	Glass bottle	
464645	250 g	Plastic bottle	
464647	1 kg	Plastic bottle	

**Low content in cobalt**



## Nickel (II) nitrate hexahydrate

Nichel nitrato oso esaidrato • Nickel (II) nitrate hexahydraté • Níquel (II) nitrato hexahidratado

$\text{Ni(NO}_3)_2 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 290,81  
CAS: 13478-00-7  
EEC-N: 236-068-5

**Classification transport**  
ONU: 2725  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H302-H334-H317-H351  
P221-P264-P210a-P280a-P304+P340-P342+P311a

### Nickel (II) nitrate hexahydrate > RPE - For analysis

**RPE**

Description ..... Green crystals      As ..... ≤ 5 ppm      Cu ..... ≤ 10 ppm      S ..... ≤ 10 ppm  
Identification ..... Positive      Ca ..... ≤ 10 ppm      Fe ..... ≤ 10 ppm      Zn ..... ≤ 10 ppm  
Water-insoluble matter ..... ≤ 100 ppm      Cd ..... ≤ 1 ppm      Mg ..... ≤ 10 ppm      Assay (complexometric) ..... ≥ 98.5 %  
Chloride ..... ≤ 50 ppm      Co ..... ≤ 0.5 %      Mn ..... ≤ 20 ppm  
Al ..... ≤ 10 ppm      Cr ..... ≤ 1 ppm      Pb ..... ≤ 1 ppm

Code	Size	Packaging	Notes
464685	250 g	Plastic bottle	
464686	1 kg	Plastic bottle	



## Nickel (II) nitrate 10g/l

Nichel nitrato oso 10 g/l • Nickel (II) nitrate 10 g/l • Níquel (II) nitrato 10 g/L

### Classification transport

ONU: 3098  
Transport Hazard class: 5.1  
Packing group II



### Danger

H314-H334-H317-H341-H350-H360D-H372-H411-HA26  
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P342+P311a

## Nickel (II) nitrate 10g/l > RS - Matrix modifiers for AAS-GTA

RS

Code	Size	Packaging	Notes
503197	50 ml	Plastic bottle	conc. 10 ppm - Matrix : Nitric acid



## Nickel (II) sulfate hexahydrate

Nichel solfato oso esadtrato • Nickel (II) sulfate hexahydraté • Níquel (II) sulfato hexahidratado

NiSO<sub>4</sub>·6H<sub>2</sub>O  
Molecular Weight: 262,86  
CAS: 10101-97-0

### Classification transport

ONU: 3077  
Transport Hazard class: 9  
Packing group III



### Danger

H301-H334-H317-H351-H410  
P264-P273-P284-P304+P340-P342+P311a-P301+P310a

## Nickel (II) sulfate hexahydrate > RPE - For analysis

RPE

Description	Green crystals	Water-insoluble matter	≤100 ppm	Cu	≤10 ppm	Pb	≤10 ppm
Identification	Positive	Subst. not ppt. (NH <sub>4</sub> ) <sub>2</sub> S	≤0.1 %	Fe	≤80 ppm	Zn	≤20 ppm
pH sol. 5% at 25° C	2.5 ÷ 6.5	Ca	≤400 ppm	K	≤500 ppm	Assay (complexometric)	≥99 %
Total nitrogen	≤20 ppm	Cd	≤10 ppm	Mn	≤10 ppm		
Chloride	≤10 ppm	Co	≤5 ppm	Na	≤100 ppm		

Code	Size	Packaging	Notes
464775	250 g	Plastic bottle	
464777	1 kg	Plastic bottle	
464772	25 kg	Plastic bucket	

Low content in cobalt



## Nicotinamide

Nicotinammide • Nicotinamide • Nicotinamida

Synonym:  
Vitamin B3  
Niacetamide

C<sub>6</sub>H<sub>6</sub>ON<sub>2</sub>  
Molecular Weight: 122,13  
CAS: 98-92-0  
EEC-N: 202-713-4



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

## Nicotinamide > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description	White crystalline powder	Ready carbonizable substances	Conform USP-NF	pH solution 5%	6.0 ÷ 7.5	Assay (non-aqueous medium)	99.0 ÷ 101.0 % s.s.
Identification	Positive	Organic volatile impurities	Conform USP-NF	Loss on drying	≤0,5 %	Assay (HPLC)	98.5 ÷ 101.5 % s.s.
Appearance of solution	Conform Ph.Eur.	Melting point	128 ÷ 131 ° C	Sulphated ash	≤0,1 %		
Related substances	Conform Ph.Eur.			Heavy metals (Pb)	≤30 ppm		

Code	Size	Packaging	Notes
392304	100 g	Plastic bottle	
392307	1 kg	Plastic bottle	



## Nicotinic acid

Acido nicotínico • Acide nicotinique • Acido nicotínico

Synonym:  
3-Picolinic acid

N:CHC(COOH):CHCH:CH  
Molecular Weight: 123,11  
CAS: 59-67-6  
EEC-N: 200-441-0



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Nicotinic acid > RPE - For analysis

RPE

Description ..... White crystalline powder    Chloride ..... ≤0.02 %    Residue on ignition ..... ≤0.1 %  
Identification ..... Positive    Heavy metals (Pb) ..... ≤20 ppm    Assay (non-aqueous medium) ..... 99.5 ÷ 100.5 %  
Melting point ..... 235.7 ÷ 237.3 ° C    Loss on drying ..... ≤1.0 %    Sulphate ..... ≤ 0.02 %

Code	Size	Packaging	Notes
407914	100 g	Plastic bottle	



## Nigrosine

Nigrosina • Nigrosine • Nigrosina

Synonym:  
Acid black 2

CAS: 8005-03-6



### Warning

H302-H312-H332  
P264-P271-P280-P261-P304+P340-P330

### Nigrosine > RS - For microscopy - C.I. 50420

RS

Description ..... black granules    Identification ..... Positive

Code	Size	Packaging	Notes
464852	25 g	Glass bottle	
464853	50 g	Glass bottle	



## Ninhydrin

Ninidrina • Ninhydrine • Ninhidrina

Synonym:  
1,2,3-Indantrione monohydrate

C<sub>9</sub>H<sub>4</sub>COCOCO.H<sub>2</sub>O  
Molecular Weight: 178,15  
CAS: 485-47-2  
EEC-N: 207-618-1



### Warning

H302-H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P330-P332+P313

### Ninhydrin > RPE - For analysis - ACS

RPE

Description ..... Yellow powder    Ident.and melting point ..... Conform    Solubility ..... Conform  
Identification ..... Positive    Aminoacids sensitivity ..... Conform

Code	Size	Packaging	Notes
464928	5 g	Glass bottle	
464922	25 g	Glass bottle	



## Ninhydrin solution

Ninidrina solzione • Ninhydrine solution • Ninhidrina solución

Synonym:  
1,2,3-Indantrione monohydrate

**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H318  
P210-P241-P243-P303+P361+P353-P305+P351+P338-P403+P235

### Ninhydrin solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611058304	100 ml	Glass bottle	Ninhydrin solution R1 Ref Ph.Eur 1058304
611058305	100 ml	Glass bottle	Ninhydrin solution R2 Ref Ph.Eur 1058305



## Ninhydrin and stannous chloride reagent

Ninidrina e stagno cloruro reattivo • Réactif à la ninhydrine et au chlorure stanneux • Ninhidrina y estaño cloruro reactivo

**Ninhydrin and stannous chloride reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611058301	100 ml	Glass bottle	Ref Ph.Eur 1058301



## Niobium standard solution

Niobio standard soluzione • Niobium solution standard • Niobio, solución patrón

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group III



**Niobium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505737	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505738	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Niobium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503751	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503755	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid
503753	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503757	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Niobium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507750	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507511	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Nital solution 4%

Nital soluzione 4% • Nital solution 4% • Nital solución 4%

**Nital solution 4% > RS - Macrography**

RS

Code	Size	Packaging	Notes
505021	1 l	Plastic bottle	

**Composition: 4ml HNO3 65% ; 100ml Ethanol**



## Nitrate standard solution

Nitrati standard soluzione • Nitrate solution standard • Nitrato, solución patrón

**Nitrate standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615002101	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002101
615002102	100 ml	Plastic bottle	A 2 ppm solution : to dilute according to Ref Ph.Eur 5002102
615002109	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002100

## Nitrate standard solution > RS - Standard solution for ion chromatography

**RS**

Code	Size	Packaging	Notes
503331	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503333	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Nitric acid fuming 90%

Acido nitrico fumante 90% • Acide nitrique fumant 90% • Acido nitrico fumante 90%

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2  
EEC-N: 231-714-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group I



**Danger**

H272-H314

P210-P221-P303+P361+P353-P305+P351+P338-P310-P405-P501a

## Nitric acid fuming 90% > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Heavy metals (Pb).....	≤1 ppm	Cu .....	≤0.2 ppm	Zn .....	≤0.2 ppm
Identification .....	Positive	Residue on ignition .....	≤10 ppm	Fe .....	≤1 ppm	Assay (acidimetric) .....	89 ÷ 92 %
Density at 20° C .....	1.479 ÷ 1.485	Sulphate .....	≤2 ppm	Mn .....	≤0.2 ppm		
Chloride .....	≤0.5 ppm	As .....	≤0.01 ppm	Ni .....	≤0.2 ppm		
Phosphate .....	≤2 ppm	Cd .....	≤0.1 ppm	Pb .....	≤0.2 ppm		

Code	Size	Packaging	Notes
408133	500 ml	Glass bottle PVC coated	



## Nitric acid 69.5%

Acido nitrico 69,5% • Acide nitrique 69.5% • Acido nitrico 69.5%

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**

H272-H314-HEU071

P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Nitric acid 69.5% > RS - VLSI For electronic use

**RS**

Code	Size	Packaging	Notes
527671	1 l	Plastic bottle	
527670	2.5 l	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**

## Nitric acid 69.5% > RS - RSE - For electronic use

**RS**

Description .....	Clear colourless liquid	As .....	≤0.005 ppm	Fe .....	≤0.1 ppm	Pt .....	≤0.02 ppm
Identification .....	Positive	Au .....	≤0.05 ppm	Ga .....	≤0.02 ppm	Sb .....	≤0.01 ppm
Density at 20° C .....	1.408 ÷ 1.418	B .....	≤0.01 ppm	In .....	≤0.02 ppm	Si .....	≤0.1 ppm
Assay (acidimetric) .....	69.1 ÷ 69.9 %	Ba .....	≤0.05 ppm	K .....	≤0.1 ppm	Sn .....	≤0.02 ppm
Chloride .....	≤0.05 ppm	Be .....	≤0.02 ppm	Li .....	≤0.02 ppm	Sr .....	≤0.02 ppm
Phosphate .....	≤0.1 ppm	Bi .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Ta .....	≤0.1 ppm
Heavy metals (Pb) .....	≤0.05 ppm	Ca .....	≤0.1 ppm	Mn .....	≤0.01 ppm	Ti .....	≤0.01 ppm
Residue on ignition .....	≤2 ppm	Cd .....	≤0.005 ppm	Mo .....	≤0.05 ppm	Tl .....	≤0.02 ppm
Sulphate .....	≤0.5 ppm	Co .....	≤0.01 ppm	Na .....	≤0.3 ppm	V .....	≤0.01 ppm
Ag .....	≤0.02 ppm	Cr .....	≤0.01 ppm	Ni .....	≤0.01 ppm	Zn .....	≤0.05 ppm
Al .....	≤0.05 ppm	Cu .....	≤0.005 ppm	Pb .....	≤0.02 ppm	Zr .....	≤0.01 ppm

Code	Size	Packaging	Notes
408097	1 l	Glass bottle	
408098	2.5 l	Glass bottle	

## Nitric acid 69.5% > RS - MOS For electronic use

**RS**

Description	Clear colourless liquid	As	≤0.005 ppm	Fe	≤0.1 ppm	Pt	≤0.05 ppm
Identification	Positive	Au	≤0.05 ppm	Ga	≤0.02 ppm	Sb	≤0.01 ppm
Density at 20° C	1.408 ÷ 1.418	B	≤0.01 ppm	In	≤0.02 ppm	Sn	≤0.02 ppm
Assay (acidimetric)	69.1 ÷ 69.9 %	Ba	≤0.05 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Chloride	≤0.05 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Ta	≤0.1 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Ti	≤0.05 ppm
Heavy metals (Pb)	≤0.05 ppm	Ca	≤0.1 ppm	Mn	≤0.01 ppm	Tl	≤0.05 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	V	≤0.05 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.3 ppm	Zn	≤0.05 ppm
Ag	≤0.02 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm	Zr	≤0.05 ppm
Al	≤0.05 ppm	Cu	≤0.005 ppm	Pb	≤0.02 ppm		

Code	Size	Packaging	Notes
408151	1 l	Glass bottle	
408152	2.5 l	Glass bottle	

## Nitric acid 69.5% > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description	Clear liquid	Nitrite	≤35 ppm	Cd	≤0.005 ppm	Na	≤0.5 ppm
Colour (APHA)	≤10	Silicate	≤1 ppm	Co	≤0.01 ppm	Ni	≤0.05 ppm
Identification	Positive	Sulphate	≤0.5 ppm	Cr	≤0.1 ppm	Pb	≤0.02 ppm
Hg	≤10 ppb	Ag	≤0.02 ppm	Cu	≤0.01 ppm	Sr	≤0.02 ppm
Density at 20° C	1.408 ÷ 1.416	Al	≤0.05 ppm	Fe	≤0.2 ppm	Ti	≤0.1 ppm
Chloride	≤0.1 ppm	As	≤0.005 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Residue on evaporation	≤5 ppm	Ba	≤0.1 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Phosphate	≤0.5 ppm	Be	≤0.02 ppm	Mg	≤0.1 ppm	Zn	≤0.01 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.01 ppm	Mn	≤0.01 ppm	Assay (acidimetric)	69.1 ÷ 69.9 %
Sulphated ash	≤4 ppm	Ca	≤5 ppm	Mo	≤0.05 ppm		

Code	Size	Packaging	Notes
408071	1 l	Glass bottle	
408076	1 l	Glass bottle PVC coated	
524530	1 l	Plastic bottle	
408072	2.5 l	Glass bottle	
524531	2.5 l	Plastic bottle	
408075	34 kg	Plastic drum	



## Nitric acid 67-70%

Acido nitrico 67-70% • Acide nitrique 67-70% • Acido nítrico 67-70%

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**

H272-H314-HEU071  
P221-P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Nitric acid 67-70% > RS - Superpure - For trace analysis at ppb level

**RS**

Code	Size	Packaging	Notes
408115	500 ml	Plastic bottle	
408116	1 l	Plastic bottle	
408117	2.5 l	Plastic bottle	



## Nitric acid 67-69%

Acido nitrico 67-69% • Acide nitrique 67-69% • Acido nítrico 67-69%

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



### Danger

H272-H314-HEU071  
P221-P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Nitric acid 67-69% > RS - Ultrapure - For trace analysis at ppt level

RS

Description ..... Clear colourless liquid	Mg ..... ≤ 10 ppt	Ce ..... ≤ 10 ppt	Pd ..... ≤ 20 ppt
Identification ..... Positive	Mn ..... ≤ 10 ppt	Cs ..... ≤ 10 ppt	Pt ..... ≤ 20 ppt
Ag ..... ≤ 10 ppt	Mo ..... ≤ 10 ppt	Dy ..... ≤ 1 ppt	Pr ..... ≤ 1 ppt
Al ..... ≤ 20 ppt	Na ..... ≤ 10 ppt	Er ..... ≤ 1 ppt	Re ..... ≤ 10 ppt
As ..... ≤ 20 ppt	Ni ..... ≤ 20 ppt	Eu ..... ≤ 1 ppt	Rh ..... ≤ 10 ppt
B ..... ≤ 10 ppt	Pb ..... ≤ 10 ppt	Gd ..... ≤ 1 ppt	Rb ..... ≤ 10 ppt
Ba ..... ≤ 10 ppt	Sn ..... ≤ 20 ppt	Ga ..... ≤ 10 ppt	Ru ..... ≤ 20 ppt
Be ..... ≤ 10 ppt	Sr ..... ≤ 10 ppt	Ge ..... ≤ 10 ppt	Sm ..... ≤ 1 ppt
Bi ..... ≤ 10 ppt	Tl ..... ≤ 10 ppt	Au ..... ≤ 20 ppt	Sc ..... ≤ 10 ppt
Ca ..... ≤ 10 ppt	Ti ..... ≤ 10 ppt	Hf ..... ≤ 10 ppt	Te ..... ≤ 1 ppt
Cd ..... ≤ 10 ppt	V ..... ≤ 10 ppt	Ho ..... ≤ 1 ppt	Tb ..... ≤ 1 ppt
Co ..... ≤ 10 ppt	Zn ..... ≤ 10 ppt	In ..... ≤ 1 ppt	Tm ..... ≤ 1 ppt
Cr ..... ≤ 10 ppt	Zr ..... ≤ 10 ppt	La ..... ≤ 1 ppt	W ..... ≤ 10 ppt
Cu ..... ≤ 10 ppt	Assay (acidimetric) ..... 67 ÷ 69 %	Li ..... ≤ 10 ppt	Yb ..... ≤ 1 ppt
Fe ..... ≤ 10 ppt	U ..... ≤ 1 ppt	Lu ..... ≤ 1 ppt	Y ..... ≤ 1 ppt
Hg ..... ≤ 50 ppt	Th ..... ≤ 1 ppt	Nd ..... ≤ 1 ppt	
K ..... ≤ 10 ppt	Sb ..... ≤ 10 ppt	Nb ..... ≤ 1 ppt	

Code	Size	Packaging	Notes
408051	500 ml	Plastic bottle	



## Nitric acid 67.5% (42Be)

Acido nitrico 67.5% (42Be) • Acide nitrique 67.5% (42Be) • Acido nítrico 67.5% (42Be)

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



### Danger

H272-H314-HEU071  
P221-P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Nitric acid 67.5% (42Be) > RPE - For analysis

RPE

Assay (acidimetric) ..... 65.5 - 69.7 %	Heavy metals (Pb) ..... ≤ 0.2 ppm	Co ..... ≤ 0.01 ppm	Na ..... ≤ 0.2 ppm
Identification (I.R.) ..... Positive	Ag ..... ≤ 0.02 ppm	Cr ..... ≤ 0.1 ppm	Ni ..... ≤ 0.02 ppm
Colour ..... ≤ 10 APHA	Al ..... ≤ 0.05 ppm	Cu ..... ≤ 0.01 ppm	Pb ..... ≤ 0.02 ppm
Density at 20°C ..... 1.39 - 1.42	As ..... ≤ 0.005 ppm	Fe ..... ≤ 0.2 ppm	Sr ..... ≤ 0.02 ppm
Residue on evaporation ..... ≤ 4 ppm	Ba ..... ≤ 0.1 ppm	K ..... ≤ 0.05 ppm	Ti ..... ≤ 0.01 ppm
Silicate ..... ≤ 1 ppm	Be ..... ≤ 0.02 ppm	Li ..... ≤ 0.02 ppm	Tl ..... ≤ 0.02 ppm
Chloride ..... ≤ 0.1 ppm	Bi ..... ≤ 0.1 ppm	Mg ..... ≤ 0.05 ppm	V ..... ≤ 0.01 ppm
Sulphate ..... ≤ 0.5 ppm	Ca ..... ≤ 0.5 ppm	Mn ..... ≤ 0.02 ppm	Zn ..... ≤ 0.05 ppm
Phosphate ..... ≤ 0.5 ppm	Cd ..... ≤ 0.005 ppm	Mo ..... ≤ 0.02 ppm	

Code	Size	Packaging	Notes
528530	5 l	Tank	

### Nitric acid 67.5% (42Be) > RE - Pure

RE

Description ..... Clear colourless liquid	Residue on ignition ..... ≤ 50 ppm	Heavy metals (Pb) ..... ≤ 10 ppm
Identification ..... Positive	Chloride ..... ≤ 30 ppm	Fe ..... ≤ 10 ppm
Density at 20° C ..... 1.395 ÷ 1.415	Sulphate ..... ≤ 50 ppm	Assay (acidimetric) ..... 65.0 ÷ 70.0 %

Code	Size	Packaging	Notes
305502	2.5 l	Glass bottle	
305501	40 kg	Plastic tank	
305505	70 kg	Plastic tank	



## Nitric acid 65%

Acido nítrico 65% • Acide nitrique 65% • Acido nítrico 65%



Molecular Weight: 63,01

CAS: 7697-37-2

### Classification transport

ONU: 2031

Transport Hazard class: 8

Packing group II



### Danger

H272-H314-HEU071

P221-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Nitric acid 65% > RS - RSE - For electronic use

RS

Description	Clear colourless liquid	As	≤0.005 ppm	Fe	≤0.1 ppm	Pt	≤0.05 ppm
Identification	Positive	Au	≤0.05 ppm	Ga	≤0.02 ppm	Sb	≤0.01 ppm
Density at 20° C	1.390 ÷ 1.410	B	≤0.01 ppm	In	≤0.02 ppm	Sn	≤0.02 ppm
Assay (acidimetric)	64.0 ÷ 66.0 %	Ba	≤0.05 ppm	K	≤0.1 ppm	Sr	≤0.02 ppm
Chloride	≤0.05 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Ta	≤0.1 ppm
Phosphate	≤0.1 ppm	Bi	≤0.02 ppm	Mg	≤0.1 ppm	Ti	≤0.05 ppm
Heavy metals (Pb)	≤0.05 ppm	Ca	≤0.1 ppm	Mn	≤0.01 ppm	Tl	≤0.05 ppm
Residue on ignition	≤2 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	V	≤0.05 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.3 ppm	Zn	≤0.05 ppm
Ag	≤0.02 ppm	Cr	≤0.01 ppm	Ni	≤0.01 ppm	Zr	≤0.05 ppm
Al	≤0.05 ppm	Cu	≤0.005 ppm	Pb	≤0.02 ppm		

Code	Size	Packaging	Notes
408101	1 l	Glass bottle	
408102	2.5 l	Glass bottle	
408103	260 kg	Polythene-metal drum	

### Nitric acid 65% > RS - For environmental analysis - ISO

RS

Description	Clear colourless liquid	Ag	≤0.02 ppm	Cr	≤0.1 ppm	Na	≤0.5 ppm
Identification	Positive	Al	≤0.05 ppm	Cu	≤0.01 ppm	Ni	≤0.05 ppm
Density at 20° C	1.390 ÷ 1.410	As	≤0.005 ppm	Fe	≤0.2 ppm	Pb	≤0.02 ppm
Chloride	≤0.1 ppm	Ba	≤0.1 ppm	Hg	≤0.005 ppm	Sr	≤0.02 ppm
Phosphate	≤0.5 ppm	Be	≤0.02 ppm	K	≤0.1 ppm	Ti	≤0.1 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.1 ppm	Li	≤0.02 ppm	Tl	≤0.05 ppm
Residue on ignition	≤4 ppm	Ca	≤0.5 ppm	Mg	≤0.05 ppm	V	≤0.05 ppm
Silicate	≤1 ppm	Cd	≤0.005 ppm	Mn	≤0.01 ppm	Zn	≤0.05 ppm
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Mo	≤0.05 ppm	Assay (acidimetric)	64 ÷ 66 %

Code	Size	Packaging	Notes
407951	1 l	Glass bottle	
407952	2.5 l	Glass bottle	

### Low content in Hg

### Nitric acid 65% > RPE - For analysis - ISO

RPE

Description	Clear colourless liquid	Ag	≤0.02 ppm	Cr	≤0.1 ppm	Ni	≤0.05 ppm
Identification	Positive	Al	≤0.05 ppm	Cu	≤0.01 ppm	Pb	≤0.02 ppm
Density at 20° C	1.390 ÷ 1.410	As	≤0.005 ppm	Fe	≤0.2 ppm	Sr	≤0.02 ppm
Chloride	≤0.1 ppm	Ba	≤0.1 ppm	K	≤0.1 ppm	Ti	≤0.1 ppm
Phosphate	≤0.5 ppm	Be	≤0.02 ppm	Li	≤0.02 ppm	Tl	≤0.05 ppm
Heavy metals (Pb)	≤0.2 ppm	Bi	≤0.1 ppm	Mg	≤0.1 ppm	V	≤0.05 ppm
Residue on ignition	≤4 ppm	Ca	≤0.5 ppm	Mn	≤0.01 ppm	Zn	≤0.05 ppm
Silicate	≤1 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm	Assay (acidimetric)	64 ÷ 66 %
Sulphate	≤0.5 ppm	Co	≤0.01 ppm	Na	≤0.5 ppm		

Code	Size	Packaging	Notes
408021	1 l	Glass bottle PVC coated	
408022	1 l	Glass bottle	
524535	1 l	Plastic bottle	
408025	2.5 l	Glass bottle	
524536	2.5 l	Plastic bottle	
408027	34 kg	Plastic drum	



## Nitric acid 65% > RE - Pure

**RE**

Description ..... Clear colourless liquid    Chloride ..... ≤10 ppm    Sulphate ..... ≤100 ppm    Assay (acidimetric) ..... 64 ÷ 66 %  
 Identification ..... Positive    Heavy metals (Pb) ..... ≤10 ppm    As ..... ≤1 ppm  
 Density at 20° C ..... 1.390 ÷ 1.410    Residue on ignition ..... ≤500 ppm    Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
305201	1 l	Glass bottle	
305207	2.5 l	Glass bottle	
305205	34 kg	Drum	
305202	34 kg	Plastic drum	



## Nitric acid 18%

Acido nitrico 18% • Acide nitrique 18% • Acido nítrico 18%

HNO<sub>3</sub>  
 Molecular Weight: 63,01  
 CAS: 7697-37-2

**Classification transport**  
 ONU: 2031  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H314  
 P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Nitric acid 18% > RS - RSE - For electronic use

**RS**

Assay ..... 17 - 19 %

Code	Size	Packaging	Notes
408191	1 l	Glass bottle	



## Nitric acid 8 mol/l (8N)

Acido nitrico 8 mol/l (8N) • Acide nitrique 8 mol/l (8N) • Acido nítrico 8 mol/l (8N)

HNO<sub>3</sub>  
 Molecular Weight: 63,01  
 CAS: 7697-37-2

**Classification transport**  
 ONU: 2031  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H314  
 P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Nitric acid 8 mol/l (8N) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 7.984 - 8.016 N

Code	Size	Packaging	Notes
PS0311/20	2.5 l	Plastic bottle	



## Nitric acid 7 mol/l (7N)

Acido nitrico 7 mol/l (7N) • Acide nitrique 7 mol/l (7N) • Acido nítrico 7 mol/l (7N)

HNO<sub>3</sub>  
 Molecular Weight: 63,01  
 CAS: 7697-37-2

**Classification transport**  
 ONU: 2031  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H314  
 P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Nitric acid 7 mol/l (7N) > RS - For analysis

**RS**

Assay (potentiometry) ..... 6.993 - 7.007 N    Chloride (Cl-) ..... ≤ 0.3 mg/Kg

Code	Size	Packaging	Notes
PS0724/42	20 l	Plastic tank	

 a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z



## Nitric acid 2 mol/l (2N)

Acido nitrico 2 mol/l (2N) • Acide nitrique 2 mol/l (2N) • Acido nítrico 2 mol/l (2N)

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Nitric acid 2 mol/l (2N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 723.....e

Code	Size	Packaging	Notes
408185000	5 l	Plastic tank	

**Volumetric solution ready-to-use : 2N. Traceable to NIST**



## Nitric acid 1 mol/l (1N)

Acido nitrico 1 mol/l (1N) • Acide nitrique 1 mol/l (1N) • Acido nítrico 1 mol/l (1N)

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Nitric acid 1 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 723.....e

Code	Size	Packaging	Notes
408176000	500 ml	Plastic bottle	
408171000	1 l	Plastic bottle	

**Volumetric solution ready-to-use : 1N. Traceable to NIST**



## Nitric acid 0.1 mol/l (0.1N)

Acido nitrico 0.1 mol/l (0.1N) • Acide nitrique 0.1 mol/l (0.1N) • Acido nítrico 0.1 mol/l (0.1N)

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

### Nitric acid 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 723.....e

Code	Size	Packaging	Notes
408206000	500 ml	Plastic bottle	

**6.301 g of HNO<sub>3</sub>. Volumetric solution ready-to-use : 0.1N. Traceable to NIST**

### Nitric acid 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
408231		Glass ampoule	Volume : 55 ml

**6,301 g HNO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Nitric acid, dilute

Acido nitrico diluito • Acide nitrique diluée • Acido nítrico diluido

HNO<sub>3</sub>  
Molecular Weight: 63,01  
CAS: 7697-37-2

**Classification transport**  
ONU: 2031  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Nitric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611058402	100 ml	Plastic bottle	Ref Ph.Eur 1058402
611058409	250 ml	Plastic bottle	Ref Ph.Eur 1058402

## Nitric acid cerium salt ▶ Cerium (III) nitrate hexahydrate



## Nitrilotriacetic acid

Acido nitrilotriacético • Acide nitrilotriacétique • Acido nitrilotriacético

Synonym:  
Nitrilotriacetic acid  
NTA

$N(CH_2COOH)_3$   
Molecular Weight: 191,15  
CAS: 139-13-9  
EEC-N: 205-355-7



## Warning

H302  
P264-P270-P330-P301+P312a-P501a

## Nitrilotriacetic acid &gt; RPE - For analysis

RPE

Description ..... White powder Identification (I.R.) ..... Conform Assay (complexometric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
408242	100 g	Glass bottle	



## Nitrite standard solution

Nitriti standard soluzione • Nitrite solution standard • Nitrito, solución patrón

## Nitrite standard solution &gt; RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503321	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503323	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## m-Nitrobenzaldehyde

m-Nitrobenzaldeide • m-Nitrobenzaldehyde • m-Nitrobenzaldehyde

$NO_2C_6H_4CHO$   
Molecular Weight: 151,12  
CAS: 99-61-6  
EEC-N: 202-772-6



## Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

## m-Nitrobenzaldehyde &gt; RE - Pure

RE

Description ..... Yellowish crystalline powder Melting point ..... 56 ÷ 59 ° C Assay (GLC) ..... ≥ 98.5 %  
Identification ..... Positive Water ..... ≤ 0.5 %

Code	Size	Packaging	Notes
465142	25 g	Glass bottle	



## Nitrobenzene

Nitrobenzene • Nitrobenzène • Nitrobenzeno

$C_6H_5NO_2$   
Molecular Weight: 123,11  
CAS: 98-95-3  
EEC-N: 202-716-0

## Classification transport

ONU: 1662  
Transport Hazard class: 6.1  
Packing group II



## Danger

H301-H311-H331-H351-H360F-H372-H412-HA26  
P264-P273-P271-P304+P340-P301+P310a-P308+P313

## Nitrobenzene &gt; RPE - For analysis - ACS

RPE

Description ..... Yellow clear liquid Residue on evaporation ..... ≤ 50 ppm Acidi solub. in acqua ..... ≤ 0.0005 meq/g  
Identification ..... Positive Chloride ..... ≤ 5 ppm Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
465222	1 l	Glass bottle	



## m-Nitrobenzoic acid

Acido m-nitrobenzoico • Acide m-nitrobenzoïque • Acido m-nitrobenzoico

Synonym:  
3-Nitrobenzoic acid

NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>COOH  
Molecular Weight: 167,12  
CAS: 121-92-6  
EEC-N: 204-508-5



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### m-Nitrobenzoic acid > RPE - For analysis

**RPE**

Description ..... Yellowish crystalline powder    Loss on drying ..... ≤0.5 %    Heavy metals (Pb).....≤10 ppm    Fe .....≤10 ppm  
Identification ..... Positive    Total chlorine .....≤20 ppm    Residue on ignition.....≤200 ppm    Assay (acidimetric) ..... ≥99 %  
Melting point..... 141 ÷ 142 °C    Methyl alcohol insolub .....≤100 ppm    Total sulphur .....≤20 ppm

Code	Size	Packaging	Notes
408414	100 g	Glass bottle	



## Nitroethane

Nitroetano • Nitroéthane • Nitroetano

CH<sub>3</sub>CH<sub>2</sub>NO<sub>2</sub>  
Molecular Weight: 75,07  
CAS: 79-24-3  
EEC-N: 201-188-9

### Classification transport

ONU: 2842  
Transport Hazard class: 3  
Packing group III



### Warning

H226-H302-H332  
P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### Nitroethane > RPE - For analysis

**RPE**

Description ..... Clear liquid    Density at 20° C ..... 1.046 ÷ 1.050    Boiling point..... 114.5 ÷ 115.5 °C    Assay (GLC) ..... ≥ 98 %  
Identification ..... Positive    Refractive index at 20°C. 1.3887 ÷ 1.3947    Water (K.F.)..... ≤ 0.2 %

Code	Size	Packaging	Notes
465502	1 l	Glass bottle	



## p-Nitrophenol

p-Nitrofenolo • p-Nitrophénol • p-Nitrofenol

Synonym:  
4-Nitrophenol

NO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH  
Molecular Weight: 139,11  
CAS: 100-02-7  
EEC-N: 202-811-7

### Classification transport

ONU: 1663  
Transport Hazard class: 6.1  
Packing group III



### Warning

H302-H312-H332-H373  
P264-P271-P260-P304+P340-P314-P330

### p-Nitrophenol > RPE - For analysis

**RPE**

Description ..... Yellow crystals    Sensitivity(pH 5.0-7.6) ..... Conform    Residue on ignition.....≤0.1 %  
Identification ..... Positive    Melting point..... 109 ÷ 114 °C    Colour change..... Colourless-yellow

Code	Size	Packaging	Notes
465744	100 g	Glass bottle	

**Acid-base indicator**



## p-Nitrophenol solution 0,1% in water

p-Nitrofenolo soluzione 0.1% in acqua • p-Nitrophénol solution 0.1% dans l'eau • p-Nitrofenol solución 0.1% en agua

Synonym:  
4-Nitrophenol

### p-Nitrophenol solution 0,1% in water > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid    Identification ..... Positive    pH range ..... 5.0 - 7.0

Code	Size	Packaging	Notes
E465776	500 ml	Bottle	

**p-Nitroso-n,n-dimethylaniline**

p-Nitroso-n,n-dimetilanilina • p-Nitroso-n,n-diméthylaniline • p-Nitroso-n,n-dimetilanilina

Synonym:

N,N-Dimethyl-4-nitroaniline  
4-Nitroso-N,N-dimethylanilineNO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>N(CH<sub>3</sub>)<sub>2</sub>  
Molecular Weight: 150,18  
CAS: 138-89-6  
EEC-N: 205-343-1**Classification transport**  
ONU: 1369  
Transport Hazard class: 4.2  
Packing group II**Warning**  
H226-H315-H317-H410  
P210-P241-P264-P273-P303+P361+P353-  
P403+P235**p-Nitroso-n,n-dimethylaniline > RPE - For analysis****RPE**Description ..... Green powder    Melting point ..... 83.5 ÷ 86.5 ° C    Assay (non-aqueous medium) ..... ≥ 98.5 %  
Identification ..... Positive    Residue on ignition ..... ≤ 0.1 %

Code	Size	Packaging	Notes
466182	25 g	Glass bottle	

**Nonylphenol ethoxylated 10 ETO**

Nonilfenolo etossilato 10 ETO • Nonylphénol éthoxylate 10 ETO • Nonilfenol etoxilato 10 ETO

Synonym:

4-Nonylphenyl-polyethylene glycol

CAS: 9016-45-9  
EEC-N: 500-024-6**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III**Warning**  
H302-H315-H319-H411  
P264-P273-P305+P351+P338-P330-P332+P313-  
P337+P313**Nonylphenol ethoxylated 10 ETO > RS - Standard for detection of surfactants****RS**

Description ..... Yellow liquid    Identification ..... Positive    Assay (at production) ..... ≥90 %

Code	Size	Packaging	Notes
466361	10 g	Glass bottle	

**Nuclear fast red**

Rosso solido nucleare • Rouge nucléaire • Rojo nuclear sólido

Synonym:

4-Amino-9,10-dihydro-1,3-dihydroxy-9,10-dioxo  
-2-anthracenesulfonic acid sodium saltC<sub>14</sub>H<sub>8</sub>NNaO<sub>7</sub>S  
Molecular Weight: 357,28  
CAS: 6409-77-4  
EEC-N: 229-088-0**Nuclear fast red > RS - For microscopy - C.I. 60760****RS**

Description ..... Red brown powder    Identification ..... Positive

Code	Size	Packaging	Notes
477011	10 g	Glass bottle	
477012	25 g	Glass bottle	

**Dye for cytology**



## n-Octane

n-Ottano • n-Octane • n-Octano

CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>CH<sub>3</sub>  
Molecular Weight: 114,23  
CAS: 111-65-9  
EEC-N: 203-892-1

### Classification transport

ONU: 1262  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H410  
P210-P241-P303+P361+P353-P301+P310a-P405-P501a

### n-Octane > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid  
Identification ..... Positive  
Ready carbonizable substances..... Conform  
Density at 20° C ..... 0.697 ÷ 0.707

Refractive index at 20°C. 1.3940 ÷ 1.4010  
Boiling point..... 125.0 ÷ 126.0 ° C  
Water (K.F.) ..... ≤100 ppm  
Residue on evaporation ..... ≤10 ppm

Acidity (caprylic acid)..... ≤17 ppm  
Alcalinity (NH<sub>3</sub>)..... ≤0.2 ppm  
Subst. reducing KMnO<sub>4</sub>..... ≤20 ppm (5m)  
Total sulphur ..... ≤50 ppm

Assay (GLC) ..... 99 ÷ 100 %

Code	Size	Packaging	Notes
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467562	1 l	Glass bottle	
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### n-Octane > RE - Pure

**RE**

Description ..... Clear colourless liquid  
Identification ..... Positive  
Colour ..... ≤ 10 APHA

Density at 20° C ..... 0.697 ÷ 0.707  
Refractive index at 20°C. 1.3925 ÷ 1.4025  
Boiling point..... 124.5 ÷ 126.5 ° C

Residue on evaporation ..... ≤30 ppm  
Acidity (caprylic acid)..... ≤50 ppm  
Total sulphur ..... ≤50 ppm

Assay (GLC) ..... ≥95 %

Code	Size	Packaging	Notes
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356661	1 l	Glass bottle	
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## Octane 80 blend

Miscela ottano 80 • Mélange octane 80 • Mezcla octano 80

CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>CH<sub>3</sub>  
Molecular Weight: 114,23  
CAS: 111-65-9

### Classification transport

ONU: 1993  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H400-H410  
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

### Octane 80 blend > RE - ASTM

**RE**

Clear, colourless liquid ..... Conform Isooctane (ASTM) ..... 79.9 - 80.1 % (V/V) n-Heptane (ASTM) ..... 19.9 - 20.1 % (V/V)

Code	Size	Packaging	Notes
------	------	-----------	-------

525993	25 l	Drum	
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## Octanoic acid ► n-Caprylic acid



## Octanol-1

Alcole n-ottilico • Octanol-1 • Octanol-1

Synonym:  
1-Octanol  
Capryl alcohol

CH<sub>3</sub>(CH<sub>2</sub>)<sub>6</sub>CH<sub>2</sub>OH  
Molecular Weight: 130,23  
CAS: 111-87-5  
EEC-N: 203-917-6



### Warning

H302-H315-H319  
P264-P280g-P305+P351+P338-P330-P332+P313-P337+P313

### Octanol-1 > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid  
Identification ..... Positive

Density at 25° C ..... 0.815 ÷ 0.830  
Refractive index at 20°C..... 1.425 ÷ 1.440

Boiling point..... 194.0 ÷ 196.0 ° C  
Melting point..... -16 ÷ -14 ° C

Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
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415002	100 ml	Glass bottle	
415003	1 l	Glass bottle	
415004	30 l	Plastic drum	

**1-Octanesulphonic acid sodium salt**

Acido 1-octansolfonico sale sodico • Acide 1-octanesulfonique sel sodique • Acido 1-octanosulfónico sal sódica

$C_8H_{17}NaO_3S$   
 Molecular Weight: 216,28  
 CAS: 5324-84-5  
 EEC-N: 226-195-4

**1-Octanesulphonic acid sodium salt > RS - For ion pair chromatography****RS**

Description ..... White crystalline powder    **Absorbance (0,25M)**    At 220 nm ..... ≤ 0.04 AU    At 250 nm ..... ≤ 0.01 AU  
 Water (K.F.) ..... ≤ 2 %    At 200 nm ..... ≤ 0.10 AU    At 230 nm ..... ≤ 0.03 AU    At 260 nm ..... ≤ 0.01 AU  
 Assay ..... ≥ 98 %    At 210 nm ..... ≤ 0.05 AU    At 240 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405861	25 g	Glass bottle	
405862	100 g	Plastic bottle	
405863	1 kg	Plastic bottle	

**1-Octanesulfonic acid sodium salt monohydrate**

Acido 1-octansolfonico sale sodico monoidrato • Acide octanesulfonique sel sodique monohydraté • Acido 1-octanosulfónico sal sódica monohidrato

Synonym:  
*Sodium 1-octanesulfonate monohydrate*  
*1-Octanesulfonic acid sodium salt monohydrate*

$CH_3(CH_2)_7SO_3Na \cdot H_2O$   
 Molecular Weight: 234,29  
 CAS: 207596-29-0

**1-Octanesulfonic acid sodium salt monohydrate > RS - For ion pair chromatography****RS**

Description ..... White crystalline powder    **Absorbance (0,25M)**    At 220 nm ..... ≤ 0.1 AU    At 250 nm ..... ≤ 0.05 AU  
 Loss on drying ..... 7.0 - 9.0 %    At 200 nm ..... ≤ 0.3 AU    At 230 nm ..... ≤ 0.075 AU    At 260 nm ..... ≤ 0.04 AU  
 Assay ..... ≥ 99.0 %    At 210 nm ..... ≤ 0.2 AU    At 240 nm ..... ≤ 0.05 AU

Code	Size	Packaging	Notes
405931	25 g	Glass bottle	
405932	100 g	Plastic bottle	

**Oil of cedar wood**

Olio di legno cedro condensato • Huile de cèdre condensée • Aceite de cedro condensado

Synonym:  
*Cedar oil*  
*Cedarwood oil*

CAS: 8002-27-9

**Warning**

H317-H412

P273-P280-P261-P272-P333+P313-P302+P352a

**Oil of cedar wood > RS - For microscopy****RS**

Description ..... Yellow colourless liquid    Identification ..... Positive    Density at 20°C ..... 0.990 ÷ 1.010

Code	Size	Packaging	Notes
466753	100 ml	Glass bottle	
466757	1 l	Glass bottle	

**Immersion medium for microscopy****Oil Red O ► Red for oils O****Oil refined of almonds**

Olio di mandorla raffinato • Huile d'amande raffinée • Aceite refinado de almendras

Synonym:  
*Almond oil*

CAS: 8007-69-0

**Oil refined of almonds > ERBapharm - According to pharmacopoeia : NF****ERBapharm**

Description ..... Yellow colourless liquid    Relative density ..... 0.910 ÷ 0.915    Peroxide value ..... ≤ 5.0    Composition of fatty acids (GC) Conform NF  
 Identification ..... Positive    Acid value ..... ≤ 0.5    Not saponifiable matt ..... ≤ 0.9 %    Sterol composition ..... Conform NF

Code	Size	Packaging	Notes
356251	1 l	Glass bottle	

**Oleic acid**

Acido oleico • Acide oléique • Acido oleico

Synonym:  
*cis-9-Octadecenoic acid*  
*Elainic acid* $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH}$ 

Molecular Weight: 282,45

CAS: 112-80-1

EEC-N: 204-007-1

**Warning**

H315-H319-H335

P264-P271-P280-P304+P340-P305+P351+P338-P312a

**Oleic acid > RE - Pure****RE**Description ..... Clear yellow liquid Density at 20° C ..... 0.890 ÷ 0.910 Iodine value ..... ≥ 89 g / 100g  
Identification ..... Positive Acid value ..... ≥ 195 mg KOH / g

Code	Size	Packaging	Notes
305704	1 l	Glass bottle	
305701	24 kg	Drum	

**Orange G**

Arancio G • Orange G • Naranja G

Synonym:  
*1-Phenylazo-2-naphthol-6,8-disulfonic acid*  
*disodium salt*  
*Acid orange 10* $\text{C}_{16}\text{H}_{10}\text{N}_2\text{Na}_2\text{O}_7\text{S}_2$ 

Molecular Weight: 452,36

CAS: 1936-15-8

EEC-N: 217-705-6

**Orange G > RS - For microscopy - C.I. 16230****RS**

Description ..... Red-orange powder Identification ..... Positive Maximum absorption ..... 470 ÷ 520 nm Loss on drying at 110°C ..... ≤ 10.00 %

Code	Size	Packaging	Notes
423432	25 g	Glass bottle	

**Dye for cytology****Orange II**

Arancio II • Orange II • Naranja II

Synonym:  
*Acid Orange 7* $\text{C}_{16}\text{H}_{11}\text{N}_2\text{NaO}_4\text{S}$ 

Molecular Weight: 350,33

CAS: 633-96-5

EEC-N: 211-199-0

**Orange II > RPE - For analysis - C.I. 15510****RPE**

Description ..... Orange red powder Identification ..... Positive

Code	Size	Packaging	Notes
423341	10 g	Glass bottle	

**Dye for microscopy (histology). Indicator acid - base (pH 11.0 ÷ 13.0). For the extraction and determination of cationic surfactants****Orcein**

Orceina • Orcéine • Orceina

Synonym:  
*Natural Red 28*

CAS: 1400-62-0

EEC-N: 215-750-6

**Warning**

H302

P264-P270-P330-P301+P312a-P501a

**Orcein > RS - For microscopy - C.I. Natural Red 28****RS**

Description ..... Brown powder Identification ..... Positive

Code	Size	Packaging	Notes
466858	5 g	Glass bottle	
466859	25 g	Glass bottle	

**Dye for botanical and histology**





## Orthophosphoric acid 99%

Acido fosforico 99% • Acide phosphorique 99% • Acido orto-fosforico 99%

Synonym:  
Phosphoric acid

H<sub>3</sub>PO<sub>4</sub>  
Molecular Weight: 98  
CAS: 7664-38-2  
EEC-N: 231-633-2

**Classification transport**  
ONU: 3453  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Orthophosphoric acid 99% > RPE - For analysis

**RPE**

Description ..... White deliquescent crystals	Nitrate ..... ≤2 ppm	Co ..... ≤5 ppm	Na ..... ≤50 ppm
Identification ..... Positive	Reducing subst as H3PO3 ..... ≤50 ppm	Cu ..... ≤5 ppm	Ni ..... ≤5 ppm
Chloride ..... ≤2 ppm	Silicate ..... ≤500 ppm	Fe ..... ≤10 ppm	Pb ..... ≤5 ppm
Fluoride ..... ≤5 ppm	Sulphate ..... ≤10 ppm	K ..... ≤20 ppm	Zn ..... ≤10 ppm
Ca, Mg and ppt by NH <sub>4</sub> OH ..... ≤50 ppm	As ..... ≤0.5 ppm	Mg ..... ≤10 ppm	Assay (acidimetric) ..... ≥99 %
Heavy metals (Pb) ..... ≤10 ppm	Cd ..... ≤5 ppm	Mn ..... ≤0.5 ppm	

Code	Size	Packaging	Notes
405967	1 kg	Plastic bottle	
405961	10 kg	Plastic jar	



## Orthophosphoric acid 85%

Acido fosforico 85% • Acide phosphorique 85% • Acido orto-fosforico 85%

Synonym:  
Phosphoric acid

H<sub>3</sub>PO<sub>4</sub>  
Molecular Weight: 98  
CAS: 7664-38-2

**Classification transport**  
ONU: 1805  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Orthophosphoric acid 85% > RS - VLSI For electronic use

**RS**

Code	Size	Packaging	Notes
527592	1 l	Plastic bottle	
527591	2.5 l	Glass bottle	

**For specifications, contact our customer service for a certificate of analysis**

### Orthophosphoric acid 85% > RS - RSE - For electronic use

**RS**

Description ..... Clear liquid	Heavy metals (Pb) ..... ≤5 ppm	Ca ..... ≤20 ppm	Mg ..... ≤5 ppm
Colour (APHA) ..... ≤10	Nitrate ..... ≤3 ppm	Cd ..... ≤5 ppm	Mn ..... ≤0.5 ppm
Identification ..... Positive	Subst. reducing KMnO <sub>4</sub> ..... ≤10 ppm	Co ..... ≤1 ppm	Na ..... ≤30 ppm
Density at 20° C ..... 1.689 ÷ 1.701	Sulphate ..... ≤5 ppm	Cu ..... ≤2 ppm	Ni ..... ≤3 ppm
Assay (acidimetric) ..... 85.0 ÷ 87.0 %	Volatile acid ..... ≤3 ppm	Fe ..... ≤5 ppm	Pb ..... ≤1 ppm
Ammonium ..... ≤5 ppm	Al ..... ≤0.5 ppm	Ga ..... ≤0.1 ppm	Sr ..... ≤5 ppm
Chloride ..... ≤1 ppm	As + Sb (as As) ..... ≤0.5 ppm	K ..... ≤5 ppm	Zn ..... ≤10 ppm
Fluoride ..... ≤5 ppm	Bi ..... ≤1 ppm	Li ..... ≤1 ppm	

Code	Size	Packaging	Notes
406022	1 l	Plastic bottle	
406021	2.5 l	Plastic bottle	

### Orthophosphoric acid 85% > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description ..... Clear liquid	Heavy metals (Pb) ..... ≤5 ppm	Cu ..... ≤2 ppm	Sb ..... ≤4 ppm
Colour (APHA) ..... ≤10	Nitrate ..... ≤3 ppm	Fe ..... ≤5 ppm	Zn ..... ≤10 ppm
Identification ..... Positive	Reducing substances ..... ≤25 ppm	K ..... ≤50 ppm	Assay (acidimetric) ..... 85 ÷ 87 %
Density at 20° C ..... 1.689 ÷ 1.701	Sulphate ..... ≤5 ppm	Mg ..... ≤10 ppm	Appearance of solution ..... Conform Ph. Eur.
Volatile acid ..... ≤10 ppm	As ..... ≤0.5 ppm	Mn ..... ≤0.5 ppm	Substances precipitated with ammonia ..... Conform Ph. Eur.
Water-insoluble matter ..... ≤10 ppm	Ca ..... ≤20 ppm	Na ..... ≤250 ppm	Phosphorous and hypophosphorous acid ... Conform Ph. Eur.
Chloride ..... ≤1 ppm	Cd ..... ≤5 ppm	Ni ..... ≤5 ppm	Alkali phosphates ..... Conform USP-NF
Fluoride ..... ≤5 ppm	Co ..... ≤1 ppm	Pb ..... ≤1 ppm	

Code	Size	Packaging	Notes
406002	1 l	Plastic bottle	
406005	2.5 l	Plastic bottle	
406003	40 kg	Plastic drum	

## Orthophosphoric acid 85% > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-

ERBApharm

### DAB

Description .....	Clear colourless liquid	Subst. ppt by NH <sub>4</sub> OH.....	Conform Ph.Eur.	Chloride.....	≤50 ppm	Fe .....	≤50 ppm
Identification .....	Positive	Nitrate .....	Conform USP-NF	Sulphate .....	≤100 ppm	Assay (acidimetric) .....	85 ÷ 88 %
Appearance of solution .....	Conform Ph.Eur.	Alkali phosphates .....	Conform USP-NF	Heavy metals (Pb).....	≤10 ppm	Origin (BSE/TSE).....	Synthesis
Hypophos. phosphor acid.....	Conform Ph.Eur.	Density at 20° C .....	1.689 ÷ 1.701	As .....	≤2 ppm	Residual solvents (Current ICH).....	Conform

Code	Size	Packaging	Notes
304061	1 l	Plastic bottle	
304062	2.5 l	Plastic bottle	
304063	40 kg	Plastic drum	

## Orthophosphoric acid 85% > RE - Pure

RE

Description .....	Clear colourless liquid	Density at 20°C .....	1.69 ÷ 1.71	Iron (Fe).....	≤ 20 ppm
Assay .....	85.0 ÷ 86.0 %	Residue on ignition.....	≤ 20 ppm	Chloride (Cl).....	≤ 5 ppm

Code	Size	Packaging	Notes
528535	5 l	Tank	



## Orthophosphoric acid 75%

Acido fosforico 75% • Acide phosphorique 75% • Acido orto-fosfórico 75%

Synonym:  
Phosphoric acid

H <sub>3</sub> PO <sub>4</sub>	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 98	ONU: 1805		H314
CAS: 7664-38-2	Transport Hazard class: 8		P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338
	Packing group III		

## Orthophosphoric acid 75% > RE - Pure

RE

Description .....	Clear liquid	Chloride.....	≤5 ppm	As .....	≤1 ppm
Identification .....	Positive	Heavy metals (Pb).....	≤10 ppm	Fe .....	≤10 ppm
Density at 20° C .....	1.568 - 1.589	Sulphate.....	≤120 ppm	Assay (acidimetric) .....	74.0 - 76.0 %

Code	Size	Packaging	Notes
304051	1 l	Plastic bottle	
304054	2.5 l	Plastic bottle	
304052	85 kg	Plastic drum	



## Orthophosphoric acid 10%

Acido fosforico 10% • Acide phosphorique 10% • Acido orto-fosfórico 10%

Synonym:  
Phosphoric acid

H <sub>3</sub> PO <sub>4</sub>	<b>Warning</b>		<b>Warning</b>
Molecular Weight: 98	H315-H319		
CAS: 7664-38-2	P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a		
EEC-N: 231-633-2			

## Orthophosphoric acid 10% > RS - For analysis

RS

Density d <sub>20/4</sub> .....	1.048 - 1.059	Assay .....	9 - 11 %
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Code	Size	Packaging	Notes
PS0084/22	5 l	Plastic tank	
PS0084/42	20 l	Plastic tank	



## Orthophosphoric acid-d3 85% in D2O

Acido fosforico-d3 85% in D2O • Acide phosphorique-d3 85% dans D2O • Acido orto-fosforico-d3 85% in D2O

Synonym:  
Phosphoric acid-d3 solution  
Trideuterophosphoric acid

D <sub>3</sub> O <sub>4</sub> P	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 101,02	ONU: 1760		H314-H318
CAS: 14335-33-2	Transport Hazard class: 8		P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338
	Packing group II		

## Orthophosphoric acid-d3 85% in D2O > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5055	25 ml	Glass bottle	

**Osmium standard solution**

Osmio standard soluzione • Osmium solution standard • Osmio, solución patrón

**Classification transport**ONU: 1789  
Transport Hazard class: 8  
Packing group III**Danger**H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Osmium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505758	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Osmium (VIII) oxide**

Osmio tetrossido • Acide osmique • Osmio tetraóxido

Synonym:  
Osmium tetroxide  
Osmic acidOsO<sub>4</sub>

Molecular Weight: 254,2

CAS: 20816-12-0

**Classification transport**ONU: 3287  
Transport Hazard class: 6.1  
Packing group II**Danger**H310-H332-H315-H318-H334  
P264-P271-P284-P304+P340-P305+P351+P338-  
P342+P311a**Osmium (VIII) oxide > RPE - For analysis****RPE**Description ..... Yellow crystals Identification ..... Positive Assay ..... ≥ 99.9 %  
No volatile matter ..... ≤ 0.2 % Melting point ..... 40.0 ÷ 42.0 ° C Non volat.substances ..... ≤ 0.2 %

Code	Size	Packaging	Notes
524712	5 x 5 ml	Glass ampoule	
524702	5 x 0.5 g	Glass ampoule	
408687	1 g	Glass ampoule	5 units / box

**Osmolality Standards**

OsmolalITÀ Standards • Etalons d'osmolalITÀ • Patrones de osmolalidad

**Osmolality Standards > RS - For calibration****RS**

Code	Size	Packaging	Notes
540301	12 x 5 ml	Glass ampoule	100mOsm/Kg H2O
540302	12 x 5 ml	Glass ampoule	1500mOsm/Kg H2O
540303	12 x 5 ml	Glass ampoule	200mOsm/Kg H2O
540304	12 x 5 ml	Glass ampoule	2000mOsm/Kg H2O
540305	12 x 5 ml	Glass ampoule	290mOsm/Kg H2O
540306	12 x 5 ml	Glass ampoule	300mOsm/Kg H2O
540307	12 x 5 ml	Glass ampoule	400mOsm/Kg H2O
540308	12 x 5 ml	Glass ampoule	500mOsm/Kg H2O
540309	12 x 5 ml	Glass ampoule	850mOsm/Kg H2O
540310	12 x 5 ml	Glass ampoule	900mOsm/Kg H2O

**Osmolality Standards Protein Based**

OsmolalITÀ standard a base di proteine • Etalons d'osmolalITÀ à base de protéines • Patrones de osmolalidad a base de proteínas

**Osmolality Standards Protein Based > RS - For calibration****RS**

Code	Size	Packaging	Notes
540351	12 x 5 ml	Glass ampoule	240mOsm/Kg H2O
540352	12 x 5 ml	Glass ampoule	280mOsm/Kg H2O
540353	12 x 5 ml	Glass ampoule	320mOsm/Kg H2O

**Osmolality Standards Urine Based**

Osmolalità Standards a base di urina • Etalons d'osmolalité à base d'urine • Patrones de osmolalidad a base de orina

**Osmolality Standards Urine Based > RS - For calibration****RS**

Code	Size	Packaging	Notes
540354	12 x 5 ml	Glass ampoule	300mOsm/Kg H <sub>2</sub> O
540355	12 x 5 ml	Glass ampoule	800mOsm/Kg H <sub>2</sub> O

**Oxalic acid dihydrate**

Acido ossalico diidrato • Acide oxalique dihydraté • Acido oxálico dihidrato

Synonym:

*Ethanedioic acid dihydrate*

(COOH)<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 126,07  
CAS: 6153-56-6  
EEC-N: 205-634-3

**Classification transport**

ONU: 3261  
Transport Hazard class: 8  
Packing group III

**Warning**

H302-H312  
P280-P264-P301+P312-P363-P501a

**Oxalic acid dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White crystals      Total nitrogen ..... ≤ 10 ppm      Heavy metals (Pb) ..... ≤ 5 ppm      Fe ..... ≤ 2 ppm  
Identification ..... Positive      Chloride ..... ≤ 20 ppm      Residue on ignition ..... ≤ 100 ppm      Assay (oxidimetric) ..... 99.5 ÷ 102.5 %  
Substances darkened by sulphuric acid ..... Conform      Water-insoluble matter ..... ≤ 50 ppm      Ca ..... ≤ 10 ppm      Sulphate ..... ≤ 50 ppm

Code	Size	Packaging	Notes
408736	500 g	Plastic bottle	
408737	1 kg	Plastic bottle	
408731	5 kg	Plastic jar	
408733	25 kg	Plastic bucket	

**Oxalic acid dihydrate > RE - Pure****RE**

Description ..... White crystals      Identification ..... Positive      Fe ..... ≤ 15 ppm      Assay (acidimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
305757	1 kg	Plastic bottle	
305758	5 kg	Plastic jar	

**Oxalic acid 0.5 mol/l (1N)**

Acido ossalico 0.5 mol/l (1N) • Acide oxalique 0.5 mol/l (1N) • Acido oxálico 0.5 mol/l (1N)

**Classification transport**

ONU: 3264  
Transport Hazard class: 8  
Packing group III

**Danger**

H315-H318  
P264-P280-P305+P351+P338-P332+P313-  
P302+P352a-P321

**Oxalic acid 0.5 mol/l (1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid      Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
408826	500 ml	Glass bottle	

**45,02 g of C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>. Volumetric solution ready-to-use: 1 N. For oxydometry. Stabilized with sulfuric acid****Oxalic acid 0.05 mol/l (0.1N)**

Acido ossalico 0.05 mol/l (0.1N) • Acide oxalique 0.05 mol/l (0.1N) • Acido oxálico 0.05 mol/l (0.1N)

(COOH)<sub>2</sub>  
Molecular Weight: 90.03  
CAS: 144-62-7

**Classification transport**

ONU: 3264  
Transport Hazard class: 8  
Packing group III

**Danger**

H315-H318  
P264-P280-P305+P351+P338-P332+P313-  
P302+P352a-P321

**Oxalic acid 0.05 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid      Assay (potentiometry) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
408856	500 ml	Glass bottle	

**4,502 g of C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>. Volumetric solution ready-to-use: 0,1 N. For oxydometry. Stabilized with sulfuric acid**

## Oxalic acid 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
408871		Plastic ampoule	Volume : 165 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,1 N**


## Oxalic acid 0.005 mol/l (0.01N)

Acido ossalico 0.005 mol/l (0.01N) • Acide oxalique 0.005 mol/l (0.01N) • Acido oxálico 0.005 mol/l (0.01N)

**Classification transport**

 ONU: 3264  
 Transport Hazard class: 8  
 Packing group III

**Danger**

 H315-H318  
 P264-P280-P305+P351+P338-P332+P313-  
 P302+P352a-P321

## Oxalic acid 0.005 mol/l (0.01N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
408901		Plastic ampoule	Volume : 55 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,01 N**

Oxalic acid diammonium salt ► Ammonium oxalate monohydrate

2,2'-Oxydiethanol ► Diethylene glycol

 a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

## PABA ▶ p-Aminobenzoic acid



### Palladium standard solution

Palladio standard soluzione • Palladium solution standard • Paladio, solución patrón

#### Palladium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003600	100 ml	Plastic bottle	A 500 ppm solution Ref Ph.Eur 5003600

#### Palladium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505772	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505775	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

#### Palladium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503811	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503815	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503813	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503817	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

#### Palladium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507751	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507512	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



### Palladium (II) chloride

Palladio cloruro oso • Palladium chlorure • Paladio (II) cloruro

PdCl<sub>2</sub>  
Molecular Weight: 177,31  
CAS: 7647-10-1  
EEC-N: 231-596-2

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III



**Danger**  
H290-H318-H317  
P280-P234-P303+P361+P353-P305+P351+P338-  
P390-P310a

#### Palladium (II) chloride > RPE - For analysis

RPE

Description ..... Red brown powder    Identification ..... Positive    Assay (gravimetric) ..... ≥59.5 % Pd

Code	Size	Packaging	Notes
467737	1 g	Glass bottle	
467731	10 g	Glass bottle	

**Palladium nitrate 2 g/l solution**

Palladio nitrato 2 g/L soluzione • Palladium nitrate 2 g/l • Paladio nitrato solución 2 g/l

Pd(NO<sub>3</sub>)<sub>2</sub>

Molecular Weight: 230,43 (an.)

CAS: 10102-05-3

**Classification transport**

ONU: 1760

Transport Hazard class: 8

Packing group III

**Warning**

H315-H319

P264-P280-P305+P351+P338-P332+P313-

P337+P313-P302+P352a

**Palladium nitrate 2 g/l solution > RS - Matrix modifiers for AAS-GTA****RS**

Code	Size	Packaging	Notes
503198	50 ml	Plastic bottle	conc. 2g/l Pd(NO <sub>3</sub> ) Matrix : Nitric acid

**Papanicolaou Haematoxylin solution according to Harris**

Papanicolaou Ematossilina soluzione secondo Harris • Papanicolaou Hématoxyline selon Harris • Papanicolaou Hematoxilina en solución según Harris

**Danger**

H318

P280-P305+P351+P338-P310a

**Papanicolaou Haematoxylin solution according to Harris > RS - For histology****RS**

Description .....Dark red liquid      Identification .....Positive      Max absorbance wave-length....555 ÷ 560 nm      Absorbance(lambda max) ..... ≥0.52 uA

Code	Size	Packaging	Notes
446462	500 ml	Plastic bottle	
446464	6 x 500 ml	Plastic bottle	
446461	1 l	Plastic bottle	
446465	6 x 1 l	Plastic bottle	
446463	2.5 l	Plastic bottle	
446466	4 x 2.5 l	Plastic bottle	

CE **IVD****Papanicolaou solution EA 50**

Papanicolaou soluzione EA 50 • Papanicolaou solution EA 50 • Papanicolaou solución EA 50

**Classification transport**

ONU: 1992

Transport Hazard class: 3

Packing group II

**Danger**

H225-H302-H312-H332-H319-H370-H373

P210-P241-P264-P303+P361+P353-P304+P340-

P305+P351+P338-P403+P235

**Papanicolaou solution EA 50 > RS - For histology****RS**

Description .....Green clear liquid      Density at 20°C ..... ~ 0.83      Assorbanza 625-645 nm ..... 0.40÷0.60

Identification .....Positive      Assorbanza 510-530 nm ..... 2.5÷2.9      Empirical test ..... Positive

Code	Size	Packaging	Notes
467782	500 ml	Plastic bottle	
E467784	6 x 500 ml	Plastic bottle	
467781	1 l	Plastic bottle	
E467785	6 x 1 l	Plastic bottle	
467783	2.5 l	Plastic bottle	
E467786	4 x 2.5 l	Plastic bottle	

CE **IVD** *Dye for cytological diagnosis and oncology. Contains ethanol and methanol*



## Papanicolaou solution OG 6

Papanicolaou soluzione OG 6 • Papanicolaou solution OG 6 • Papanicolaou solución OG 6

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

## Papanicolaou solution OG 6 > RS - For histology

RS

Description ..... Orange clear liquid    Density at 20°C ..... ~ 0.83    Absorbance at 480 nm ..... 0.6 ÷ 0.8  
Identification ..... Positive    Empirical test ..... Positive

Code	Size	Packaging	Notes
467792	500 ml	Plastic bottle	
E467794	6 x 500 ml	Plastic bottle	
467791	1 l	Plastic bottle	
E467795	6 x 1 l	Plastic bottle	
467793	2.5 l	Plastic bottle	
E467796	4 x 2.5 l	Plastic bottle	

CE **IVD** **Dye for cytological diagnosis and oncology. Contains ethanol and methanol**



## Paraffin 56-58°C - Erbaplast (without DMSO)

Paraffina 56-58°C Erbaplast (senza DMSO) • Paraffine 56-58°C Erbaplast (sans DMSO) • Parafina 56-58°C Erbaplast (sin DMSO)

CAS: 92045-76-6  
EEC-N: 295-458-3

## Paraffin 56-58°C - Erbaplast (without DMSO) > RS - For histology - CE - IVD

RS

Description ..... White pellets    Melting point ..... 56 ÷ 58 °C

Code	Size	Packaging	Notes
467958	4 x 2 kg	Bag	

CE **IVD**



## Paraffin 56°C-58°C - Erbaplast (with DMSO)

Paraffina 56°C-58°C Erbaplast (con DMSO) • Paraffina 56 - 58°C Erbaplast (avec DMSO) • Parafina 56°C-58°C - Erbaplast (con DMSO)

CAS: 92045-76-6  
EEC-N: 295-458-3

## Paraffin 56°C-58°C - Erbaplast (with DMSO) > RS - For histology

RS

Description ..... White pellets    Melting point ..... 56 ÷ 58 °C

Code	Size	Packaging	Notes
467938	4 x 2 kg	Bag	



## Paraffin oil

Olio di vaselina • Huile de vaseline • Aceite de vaselina

Synonym:  
Mineral oil

CAS: 8012-95-1  
EEC-N: 232-384-2

## Paraffin oil > RS - For optical spectroscopy

RS

Description ..... Colourless oily liquid    Identification (I.R.) ..... Conform    Density at 20°C ..... ~ 0.880

Code	Size	Packaging	Notes
466792	100 ml	Glass bottle	



**Paraffin oil > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP****ERBApharm**

Description ..... Colourless oily liquid Polynuclear hydrocarbon.....Conform Ph.Eur. Scale wax .....Conform Ph.Eur. Density at 20°C .....0.827 ÷ 0.890  
 Identification ..... Positive Ready carbonizable substances.....Conform Ph.Eur. Viscosity at 20°C..... 110 ÷ 230 mPa x s Density at 25°C .....0.845 ÷ 0.905  
 Acidity or alkalinity.....Conform Ph.Eur. Ph.Eur. Viscosity at 40°C..... 34.5 ÷ 150 mm 2/s

Code	Size	Packaging	Notes
356601	1 l	Glass bottle	
356608	5 l	Aluminium can	
356603	23 kg	Drum	
356607	180 kg	Metal drum	

**Paraffin white soft**

Vaselina bianca • Vaseline blanche • Vaselina blanca

Synonym:  
VaselineCAS: 8009-03-8  
EEC-N: 232-373-2**Paraffin white soft > ERBApharm - According to pharmacopoeia : BP-NF****ERBApharm**

Description ..... White mass Aspetto sostanza fusa.....Conform BP USP-NF Melting point..... 47.0 ÷ 65.0 °C  
 Identification ..... Positive Consistenza .....60 ÷ 300 BP Acidity or alkalinity.....Conform BP Sulphated ash..... ≤0.05 %  
 Reaction ..... Conform USP-NF Ready carbonizable substances.....Conform Polynuclear hydrocarbon..... ≤ 300 ppm

Code	Size	Packaging	Notes
388407	1 kg	Box	
388409	5 kg	Plastic jar	

**Paraffin white soft > RE - Pure****RE**

Appearance .....Soft whitish mass Identification ..... Conform Drop melting point..... 50 - 60 °C

Code	Size	Packaging	Notes
388607	1 kg	Plastic bottle	
388609	5 kg	Plastic jar	

**Paraformaldehyde**

Paraformaldeide • Paraformaldéhyde • Paraformaldehydo

Synonym:  
PolyoxymethyleneHO(CH<sub>2</sub>O)<sub>n</sub>H  
CAS: 30525-89-4**Classification transport**ONU: 2213  
Transport Hazard class: 4.1  
Packing group III**Danger**H228-H302-H331-H315-H319-H317-H351-H335  
P210-P241-P264-P271-P304+P340-  
P305+P351+P338**Paraformaldehyde > RE - Pure****RE**Description ..... White powder Sulphated ash ..... ≤ 0.1 % Acidity or alkalinity.....Passes test Insoluble in NH<sub>4</sub>OH .....Passes test  
Identification ..... Positive Assay (oxidimetric) ..... ≥ 95 % Heavy metals (Pb)..... ≤ 0.001 %

Code	Size	Packaging	Notes
387507	1 kg	Plastic bottle	
387503	25 kg	Fibre drum	

**Pararosaniline solution, decolorised**

Pararosanilina soluzione, decolorata • Pararosaniline décolorée en solution • Pararosanilina solución, decolorado

**Danger**H350-HA26  
P280-P201-P202-P308+P313-P405-P501a**Pararosaniline solution, decolorised > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611062201	100 ml	Glass bottle	Ref Ph.Eur 1062201

**Storage: protected from light**



## n-Pentane 99%

n-Pentano 99% • n-Pentane 99% • n-Pentano 99%

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>  
Molecular Weight: 72,15  
CAS: 109-66-0  
EEC-N: 203-692-4

### Classification transport

ONU: 1265  
Transport Hazard class: 3  
Packing group I



### Danger

H224-H336-H304-H411-HEU066  
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

### n-Pentane 99% > RS - ATRASOL - For analysis of volatile traces

RS

Refractive index at 20°C ..... 1.355 - 1.359  
Water content (K.F.) ..... ≤ 50 mg/Kg  
Colour ..... ≤ 10 Hazen  
Assay (GC) ..... ≥ 99 %

Non volatile residue ..... ≤ 2 mg/Kg  
GC ( FID ) - NC Atrasol ..... Conform  
GC-ECD.Individual peak (CCl4) ..... ≤ 1 µg/l

**Ret.time dichloromethane- trichloro-  
benz.**  
GC-ECD.Individual peak (Lindane) .. ≤ 2 ng/l  
**Retention time trichlorobenzene to mirex**  
GC-FID.Individ. peak (hexadecane) . ≤ 5 µg/l

**Retention time range over toluène**  
Free acid (as CH<sub>3</sub>COOH) ..... ≤ 10 mg/Kg  
Total sulphur (S) ..... ≤ 10 ppm

Code	Size	Packaging	Notes
P064323016	1 l	Glass bottle	
P064323021	2.5 l	Glass bottle	

### n-Pentane 99% > RS - SPECTROSOL - For optical spectroscopy

RS

Description ..... Clear colourless liquid  
Identification ..... Positive  
Colour ..... ≤ 10 APHA  
Density at 20° C ..... 0.623 ÷ 0.629  
Refractive index at 20°C. 1.3552 ÷ 1.3606

Boiling point ..... 35.8 ÷ 36.3 ° C  
Acidity or alkalinity ..... ≤ 0.0002 meq/g  
Water (K.F.) ..... ≤ 50 ppm  
Residue on evaporation ..... ≤ 2 ppm  
Total sulphur ..... ≤ 10 ppm

Aromatic compounds ..... ≤ 5 ppm  
Assay (GLC) ..... ≥ 99 %  
**U.V. Transmittance**  
at 210 nm ..... ≥ 45 %  
at 220 nm ..... ≥ 89 %

at 230 nm ..... ≥ 95 %  
Transmittance from 240 nm ..... ≥ 98 %

Code	Size	Packaging	Notes
468142	1 l	Glass bottle	
468141	2.5 l	Glass bottle	

### n-Pentane 99% > RS - For enviromental analysis

RS

Description ..... Clear liquid  
Identification ..... Positive  
Colour (APHA) ..... ≤ 10

Water ..... ≤ 50 ppm  
Not volatile residue ..... ≤ 5 ppm  
Free acids (CH<sub>3</sub>COOH) ..... ≤ 10 ppm

Total sulphur ..... ≤ 10 ppm  
GC-ECD (Carbonio tetracloruro) ..... ≤ 1 µg/l  
GC-ECD (Lindano) ..... ≤ 2 ng/l

GC-FID (Esadecano) ..... ≤ 5 µg/l  
Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
468204	1 l	Glass bottle	

### n-Pentane 99% > RPE - For analysis - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liquid  
Identification ..... Positive  
Colour (APHA) ..... ≤ 10  
Density at 15° C ..... 0.629 ÷ 0.633  
Identification (I.R.) ..... Positive  
Aromatics ..... ≤ 0.001 %  
Alcohol miscibility ..... Complete

Residue on evaporation ..... ≤ 0.001 % p/v  
Diethyl ether miscib. .... Complete  
Assay (GLC) ..... ≥ 99 %  
Chloroform miscibility ..... Complete  
Density at 20° C ..... 0.623 ÷ 0.629  
Refractive index at 20°C. 1.3552 ÷ 1.3606  
Boiling point ..... 35.8 ÷ 36.3 ° C

Acidity or alkalinity ..... ≤ 0.0001 meq/g  
Water (K.F.) ..... ≤ 100 ppm  
Total phosphorus ..... ≤ 0.5 ppm  
Total silicon ..... ≤ 0.02 ppm  
Total sulphur ..... ≤ 5 ppm  
Ca ..... ≤ 0.5 ppm  
Cu ..... ≤ 0.05 ppm

Fe ..... ≤ 0.2 ppm  
K ..... ≤ 0.2 ppm  
Mg ..... ≤ 0.1 ppm  
Na ..... ≤ 1 ppm  
Pb ..... ≤ 0.05 ppm  
Zn ..... ≤ 0.1 ppm

Code	Size	Packaging	Notes
468151000	1 l	Glass bottle	

### n-Pentane 99% > RE - Pure

RE

Description ..... Clear liquid  
Identification ..... Positive  
Colour ..... ≤ 10 APHA

Density at 20°C ..... 0.621 ÷ 0.631  
Refractive index at 20°C. 1.3529 ÷ 1.3629  
Boiling point ..... 34.75 ÷ 37.25 °C

Residue on evaporation ..... ≤ 20 ppm  
Water (K.F.) ..... ≤ 150 ppm  
Aromatic compounds ..... ≤ 10 ppm

Assay (GLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
528994	1 l	Glass bottle	
528993	2.5 l	Glass bottle	
528995	5 l	Aluminium can	
528996	25 l	Drum	
528997	200 l	Metal drum	

**n-Pentane**

n-Pentano • n-Pentane • n-Pentano

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>  
Molecular Weight: 72,15  
CAS: 109-66-0  
EEC-N: 203-692-4

**Classification transport**  
ONU: 1265  
Transport Hazard class: 3  
Packing group I

**Danger**

H224-H336-H304-H411-HEU066  
P210-P241-P273-P303+P361+P353-P304+P340-  
P403+P235

**n-Pentane > RS - For HPLC - Isocratic Grade****RS**

Refractive index at 20°C ..... 1.355 - 1.359  
Water content (K.F.) ..... ≤ 100 mg/Kg  
Colour ..... ≤ 10 Hazen  
UV transmittance at 210 nm ..... ≥ 5 %  
UV transmittance at 230 nm ..... ≥ 80 %  
UV transmittance at 290 nm ..... ≥ 85 %  
UV transmittance at 300 nm ..... ≥ 98 %  
Aromatic compounds ..... ≤ 5 mg/Kg  
Non volatile residue ..... ≤ 5 mg/Kg  
Assay (GC) ..... ≥ 95 %  
Total sulphur (S) ..... ≤ 2 ppm  
Free acid (as CH<sub>3</sub>COOH) ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0643716	1 l	Glass bottle	
P0643721	2.5 l	Glass bottle	

**n-Pentane > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination****RS**

Refractive index at 20°C ..... 1.355 - 1.359  
Water content (K.F.) ..... ≤ 50 mg/Kg  
Colour ..... ≤ 5 Hazen  
Non volatile residue ..... ≤ 2 mg/Kg  
GC-ECD.Individual peak (Lindane) ..≤ 3 ng/l  
**Retention time trichlorobenzene to mirex**  
GC-FID.Hydrocarbon oil index...≤ 0.05 mg/l  
**Retention time n-decane - n-tetracon-**  
**tane**  
Appearance ..... Clear colourless liquid  
GC-FID.Individual peak (C10-C40)..≤ 5 µg/l  
Density d20/4 ..... 0.621 - 0.631

Code	Size	Packaging	Notes
P0643216	1 l	Glass bottle	
P0643221	2.5 l	Glass bottle	

**n-Pentane > RS - PESTIPUR - For pesticide analysis****RS**

Description ..... Clear liquid  
Identification ..... Positive  
Colour ..... ≤ 10 hazen  
Water ..... ≤ 50 ppm  
Acidity (acetic acid) ..... ≤ 10 ppm  
Not volatile residue ..... ≤ 5 ppm  
Total sulphur ..... ≤ 2 ppm  
GC-ECD (Lindano) ..... ≤ 3 ng/l  
GC-NPD (Ethylparation) ..... ≤ 3 ng/l  
Assay (GLC) ..... ≥ 95 %

Code	Size	Packaging	Notes
468161	1 l	Glass bottle	
468162	2.5 l	Glass bottle	

**n-Pentane > RS - Anhydrous - For analysis****RS**

Refractive index at 20°C ..... 1.355 - 1.359  
Water content (K.F.) ..... ≤ 50 mg/Kg  
Non volatile residue ..... ≤ 10 mg/Kg  
Colour ..... ≤ 10 Hazen  
Assay (GC) ..... ≥ 95 %  
Aromatic compounds ..... ≤ 20 mg/Kg  
n-hexane ..... ≤ 0.4 %  
Cyclopentane ..... ≤ 1 %  
2,2-dimethylbutane ..... ≤ 1 %  
Total sulphur (S) ..... ≤ 2 ppm  
Free acid (as CH<sub>3</sub>COOH) ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0641016	1 l	Glass bottle	On molecular sieves

**n-Pentane > RPE - For analysis****RPE**

Refractive index at 20°C ..... 1.355 - 1.359  
Water content (K.F.) ..... ≤ 150 mg/Kg  
Non volatile residue ..... ≤ 10 mg/Kg  
Colour ..... ≤ 10 Hazen  
Assay (GC) ..... ≥ 95 %  
Aromatic compounds ..... ≤ 20 mg/Kg  
n-hexane ..... ≤ 0.4 %  
Cyclopentane ..... ≤ 1 %  
2,2-dimethylbutane ..... ≤ 1 %  
Total sulphur (S) ..... ≤ 2 ppm  
Free acid (as CH<sub>3</sub>COOH) ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
468121	1 l	Glass bottle	
468122	2.5 l	Glass bottle	
468123	200 l	Metal drum	

**n-Pentane > RE - Pure****RE**

Description ..... Clear colourless liquid  
Identification ..... Positive  
Density at 20° C ..... 0.621 ÷ 0.631  
Refractive index at 20°C ..... 1.3529 ÷ 1.3629  
Water (K.F.) ..... ≤ 200 ppm  
Residue on evaporation ..... ≤ 20 ppm  
Assay (GLC) ..... ≥ 95 %  
Colour ..... ≤ 10 APHA  
n-Hexane ..... ≤ 0.4 %

Code	Size	Packaging	Notes
356951	1 l	Glass bottle	
356954	5 l	Aluminium can	
356952	16 kg	Drum	
356953	200 l	Metal drum	

## 2,4-Pentanedione ► Acetylacetone



## 1-Pentanesulphonic acid sodium salt

Acido 1-pentansolfonico sale sodico • Acide 1-pentanesulfonique sel sodique •  
Acido 1-pentanosulfónico sal sódica

Synonym:  
*Sodium pentanesulfonate*

$\text{CH}_3(\text{CH}_2)_4\text{SO}_3\text{Na}$   
Molecular Weight: 174,19  
CAS: 22767-49-3  
EEC-N: 245-208-4

## 1-Pentanesulphonic acid sodium salt &gt; RS - For ion pair chromatography

RS

Description ..... White crystalline powder    **Absorbance (0,25M)**    At 220 nm ..... ≤ 0.04 AU    At 250 nm ..... ≤ 0.01 AU  
Water (K.F.) ..... ≤ 2 %    At 200 nm ..... ≤ 0.10 AU    At 230 nm ..... ≤ 0.03 AU    At 260 nm ..... ≤ 0.01 AU  
Assay ..... ≥ 98 %    At 210 nm ..... ≤ 0.05 AU    At 240 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405841	25 g	Glass bottle	
405842	100 g	Plastic bottle	

## 1-Pentanesulphonic acid sodium salt &gt; RPE - For analysis

RPE

Description ..... White powder    Identification ..... Positive    Assay ..... ≥95 %

Code	Size	Packaging	Notes
409062	5 g	Glass bottle	
409064	25 g	Glass bottle	



## 1-Pentanesulphonic acid sodium salt monohydrate

Acido 1-pentansolfonico sale sodico monoidrato • Acide 1-pentanesulfonique sel sodique monohydrate •  
Acido 1-pentanosulfónico sal sódica monohidrato

Synonym:  
*Sodium 1-pentanesulfonate monohydrate*  
*1-Pentanesulfonic acid sodium salt*

$\text{CH}_3(\text{CH}_2)_4\text{SO}_3\text{Na}\cdot\text{H}_2\text{O}$   
Molecular Weight: 192,19  
CAS: 207605-40-1

## 1-Pentanesulphonic acid sodium salt monohydrate &gt; RS - For ion pair chromatography

RS

Description ..... White crystalline powder    **Absorbance (0,25M)**    At 220 nm ..... ≤ 0.03 AU    At 250 nm ..... ≤ 0.01 AU  
Loss on drying ..... 7.0 - 9.0 %    At 200 nm ..... ≤ 0.1 AU    At 230 nm ..... ≤ 0.02 AU  
Assay ..... ≥ 99.0 %    At 210 nm ..... ≤ 0.05 AU    At 240 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
405891	25 g	Glass bottle	
405892	100 g	Plastic bottle	

## Pentanoic acid ► n-Valeric acid

## 1-Pentanol ► n-Amyl alcohol



## Pepsin HCl

Pepsina HCl • Pepsine • Pepsina HCl



**Danger**

H314-HEU208

P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Pepsin HCl &gt; RPE - For analysis

RPE

Code	Size	Packaging	Notes
468245	250 ml	Bottle	

**Cleaning solution proteins**



## Perchloric acid 65-71%

Acido perclorico 65-71% • Acide perchlorique 65-71% • Acido perclórico 65-71%

HClO<sub>4</sub>  
Molecular Weight: 100,47  
CAS: 7601-90-3

### Classification transport

ONU: 1873  
Transport Hazard class: 5.1  
Packing group I



### Danger

H271-H314  
P210-P221-P283-P303+P361+P353-  
P305+P351+P338-P310-P405-P501a

### Perchloric acid 65-71% > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear liquid	Dy	≤ 0.5 ppb	Mo	≤ 0.5 ppb	Tb	≤ 0.5 ppb
Identification	Positive	Er	≤ 0.5 ppb	Nd	≤ 0.5 ppb	Tl	≤ 0.5 ppb
Colour	≤ 10 APHA	Eu	≤ 0.5 ppb	Ni	≤ 1 ppb	Th	≤ 1 ppb
Al	≤ 1 ppb	Gd	≤ 0.5 ppb	Pd	≤ 0.5 ppb	Tm	≤ 0.5 ppb
Sb	≤ 0.5 ppb	Ga	≤ 0.5 ppb	Pt	≤ 0.5 ppb	Sn	≤ 1 ppb
As	≤ 0.5 ppb	Au	≤ 0.5 ppb	K	≤ 1 ppb	Ti	≤ 1 ppb
Ba	≤ 1 ppb	Ho	≤ 0.5 ppb	Pr	≤ 0.5 ppb	U	≤ 0.5 ppb
Be	≤ 0.5 ppb	In	≤ 0.5 ppb	Rh	≤ 0.5 ppb	V	≤ 0.5 ppb
Bi	≤ 0.5 ppb	Fe	≤ 1 ppb	Rb	≤ 0.5 ppb	Yb	≤ 0.5 ppb
Cd	≤ 1 ppb	La	≤ 0.5 ppb	Sm	≤ 0.5 ppb	Y	≤ 0.5 ppb
Ca	≤ 1 ppb	Pb	≤ 1 ppb	Sc	≤ 0.5 ppb	Zn	≤ 1 ppb
Ce	≤ 0.5 ppb	Li	≤ 0.5 ppb	Ag	≤ 1 ppb	Zr	≤ 0.5 ppb
Cs	≤ 0.5 ppb	Lu	≤ 0.5 ppb	Na	≤ 1 ppb	Assay (acidimetric)	65 ÷ 71 %
Co	≤ 0.5 ppb	Mg	≤ 1 ppb	Sr	≤ 0.5 ppb		
Cu	≤ 0.5 ppb	Mn	≤ 1 ppb	Te	≤ 0.5 ppb		

Code	Size	Packaging	Notes
409193	1 l	Glass bottle	



## Perchloric acid 65%

Acido perclorico 65% • Acide perchlorique 65% • Acido perclórico 65%

HClO<sub>4</sub>  
Molecular Weight: 100,47  
CAS: 7601-90-3

### Classification transport

ONU: 1873  
Transport Hazard class: 5.1  
Packing group I



### Danger

H271-H314  
P210-P221-P283-P303+P361+P353-  
P305+P351+P338-P310-P405-P501a

### Perchloric acid 65% > RS - For enviromental analysis - ISO

RS

Description	Clear liquid	Residue on ignition	≤30 ppm	Cr	≤0.2 ppm	Pb	≤0.05 ppm
Colour (APHA)	≤10	Sulphate	≤4 ppm	Cu	≤0.1 ppm	Sr	≤0.02 ppm
Identification	Positive	Ag	≤0.1 ppm	Fe	≤0.5 ppm	Ti	≤0.1 ppm
Density at 20° C	1.587 ÷ 1.607	Al	≤0.05 ppm	Hg	≤0.02 ppm	Tl	≤0.05 ppm
Total nitrogen	≤10 ppm	As	≤0.05 ppm	K	≤0.1 ppm	V	≤0.05 ppm
Chlorate	≤10 ppm	Ba	≤0.02 ppm	Li	≤0.02 ppm	Zn	≤0.1 ppm
Free chlorine	≤0.5 ppm	Bi	≤0.1 ppm	Mg	≤0.5 ppm	Assay (acidimetric)	64 ÷ 66 %
Chloride	≤1 ppm	Ca	≤0.5 ppm	Mn	≤0.02 ppm		
Fluoride	≤1 ppm	Cd	≤0.005 ppm	Mo	≤0.05 ppm		
Phosphate-silicate(SiO <sub>2</sub> )	≤1 ppm	Co	≤0.05 ppm	Ni	≤0.1 ppm		

Code	Size	Packaging	Notes
409121	1 l	Glass bottle	

#### Low content in Hg

### Perchloric acid 65% > RPE - For analysis - ISO

RPE

Description	Clear liquid	Heavy metals (Pb)	≤1 ppm	Co	≤0.05 ppm	Pb	≤0.05 ppm
Colour (APHA)	≤10	Residue on ignition	≤30 ppm	Cr	≤0.2 ppm	Sr	≤0.02 ppm
Identification	Positive	Sulphate	≤4 ppm	Cu	≤0.1 ppm	Ti	≤0.1 ppm
Density at 20° C	1.587 ÷ 1.607	Ag	≤0.1 ppm	Fe	≤0.5 ppm	Tl	≤0.05 ppm
Total nitrogen	≤10 ppm	Al	≤0.05 ppm	K	≤0.1 ppm	V	≤0.05 ppm
Chlorate	≤10 ppm	As	≤0.05 ppm	Li	≤0.02 ppm	Zn	≤0.1 ppm
Free chlorine	≤0.5 ppm	Ba	≤0.02 ppm	Mg	≤0.5 ppm	Assay (acidimetric)	64 ÷ 66 %
Chloride	≤1 ppm	Bi	≤0.1 ppm	Mn	≤0.02 ppm		
Fluoride	≤1 ppm	Ca	≤0.5 ppm	Mo	≤0.05 ppm		
Phosphate-silicate(SiO <sub>2</sub> )	≤5 ppm	Cd	≤0.05 ppm	Ni	≤0.1 ppm		

Code	Size	Packaging	Notes
409111	1 l	Glass bottle	
409113	35 kg	Drum	

## Perchloric acid 65% > RE - Pure

**RE**

Description .....	Clear colourless liquid	Total nitrogen .....	≤50 ppm	Heavy metals (Pb).....	≤1 ppm	Fe .....	≤5 ppm
Identification .....	Positive	Chloride .....	≤10 ppm	Residue on ignition .....	≤50 ppm	Assay (acidimetric) .....	64 ÷ 66 %
Density at 20° C .....	1.587 ÷ 1.607	Phosphate-silicate(SiO2).....	≤50 ppm	Sulphate .....	≤50 ppm		

Code	Size	Packaging	Notes
306091	1 l	Glass bottle	



## Perchloric acid 60%

Acido perclorico 60% • Acide perchlorique 60% • Acido perclórico 60%

HClO<sub>4</sub>  
Molecular Weight: 100,47  
CAS: 7601-90-3

**Classification transport**  
ONU: 1873  
Transport Hazard class: 5.1  
Packing group I



**Danger**  
H271-H314  
P210-P221-P283-P303+P361+P353-  
P305+P351+P338-P310-P405-P501a

## Perchloric acid 60% > RPE - For agroalimentary analysis

**RPE**

Description .....	Clear colourless liquid	Total nitrogen .....	≤ 50 ppm	Heavy metals (Pb).....	≤ 1 ppm	Fe .....	≤ 5 ppm
Identification .....	Positive	Chloride .....	≤ 10 ppm	Residue on ignition .....	≤ 50 ppm	Assay (acidimetric) .....	60 ÷ 67 %
Density at 20° C .....	1.587 ÷ 1.607	Phosphate-silicate(SiO2).....	≤ 50 ppm	Sulphate .....	≤ 50 ppm		

Code	Size	Packaging	Notes
502046	1 l	Glass bottle	



## Perchloric acid 0.1 mol/l (0.1N) in acetic acid

Acido perclorico 0.1 mol/l (0.1N) in acido acetico • Acide perchlorique 0.1 mol/l (0.1N) dans l'acide acétique • Acido perclórico 0.1 mol/l (0.1N) en acido acético

**Classification transport**  
ONU: 2789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H225-H314  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

## Perchloric acid 0.1 mol/l (0.1N) in acetic acid > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Assay (potentiometry) .....	0.0998 - 0.1002 N	NIST 84 .....	
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Code	Size	Packaging	Notes
409136	500 ml	Glass bottle	
409131	1 l	Glass bottle	

**10,046 g of HClO<sub>4</sub>. Volumetric solution ready-to-use: 0,1 N. Content is guaranteed for standardized volumes at 20 °C**



## Perchloric acid 0.1 mol/l (0.1N)

Acido perclorico 0.1 mol/l (0.1N) • Acide perchlorique 0.1 mol/l (0.1N) • Acido perclórico 0.1 mol/l (0.1N)

**Classification transport**  
ONU: 2789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H225-H314  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

## Perchloric acid 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613003900	1 l	Glass bottle	Ref Ph.Eur 3003900

**Perchloric acid 0.05 mol/l (0.05N)**

Acido perclorico 0.05 mol/l (0.05N) • Acide perchlorique 0.05 mol/l (0.05N) • Acido perclórico 0.05 mol/l (0.05N)

**Classification transport**Transport Hazard class: 8  
Packing group II**Perchloric acid 0.05 mol/l (0.05N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613004000	1 l	Glass bottle	Ref Ph.Eur 3004000

**Perchloric acid 0.01 mol/l (0.01N)**

Acido perclorico 0.01 mol/l (0.01N) • Acide perchlorique 0.01 mol/l (0.01N) • Acido perclórico 0.01 mol/l (0.01N)

**Classification transport**ONU: 2789  
Transport Hazard class: 8  
Packing group II**Danger**H226-H314-H318  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235**Perchloric acid 0.01 mol/l (0.01N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E409141	500 ml	Glass bottle	

**1.0046 g of HClO<sub>4</sub>. Volumetric solution ready-to-use : 0.01N. Solution in acetic anhydride****Perchloric acid solution**

Acido perclorico soluzione • Acide perchlorique solution • Acido perclórico solución

**Perchloric acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611062901	100 ml	Plastic bottle	Ref Ph.Eur 1062901

**Periodic acid**

Acido periodico • Acide périodique • Acido periódico

HIO<sub>4</sub>·2H<sub>2</sub>O  
Molecular Weight: 227,94  
CAS: 10450-60-9  
EEC-N: 233-937-0**Classification transport**ONU: 3084  
Transport Hazard class: 8  
Packing group II**Danger**H272-H314  
P221-P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Periodic acid > RPE - For analysis****RPE**Description ..... White-yellowish crystalline powder Identification ..... Positive  
Aspetto soluzione 5% ..... Complete iodide ..... < 10 ppm  
Cloruri-Bromuri + Clorati-Bromati (Cl) < 200 ppm  
Sulphated ash ..... < 0.05 %  
Nitrate ..... < 100 ppm  
Assay (iodometric) ..... > 99.0 %

Code	Size	Packaging	Notes
409182	25 g	Glass bottle	
409184	100 g	Glass bottle	
409185	250 g	Glass bottle	



## Petroleum

Petrolio • Pétrole • Petróleo

CAS: 64771-72-8  
EEC-N: 929-018-5



### Danger

H304-HEU066  
P301+P310a-P331-P405-P501a

### Petroleum > RE - Pure

RE

Description ..... Clear colourless liquid Density at 15°C ..... 0.746 ÷ 0.752 Residue on ignition ..... ≤ 100 ppm  
Identification (I.R.) ..... Positive Boiling point ..... 185 ÷ 245 °C

Code	Size	Packaging	Notes
357151	1 l	Glass bottle	
357155	21 kg	Drum	



## Petroleum benzin E

Benzina E • Essence E • Benzina de Petroleo E

CAS: 64742-49-0

### Classification transport

ONU: 3295  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H304-H315-H336-H411  
P210-P241-P301+P310-P303+P361+P353-P405-P501a

### Petroleum benzin E > RE - Pure

RE

Density d15/4 ..... 0.720 - 0.745 Aromatic compounds ..... ≤ 100 mg/Kg Total sulphur (S) ..... ≤ 5 ppm  
Colour ..... ≤ 10 Hazen Boiling point ..... 100 - 140 °C

Code	Size	Packaging	Notes
P0370048	25 l	Drum	



## Petroleum ether 100 - 140°C

Etere di petrolio (Ligroina) 100 - 140°C • Ether de pétrole 100 - 140°C • Eter de petróleo 100 - 140°C

CAS: 64742-49-0  
EEC-N: 265-151-9

### Classification transport

ONU: 3295  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H411  
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

### Petroleum ether 100 - 140°C > RE - Pure

RE

Description ..... Clear colourless liquid Residue on evaporation ..... ≤ 50 ppm Aromatics (Thiophene) ..... ≤ 0.06 %  
Water (K.F.) ..... ≤ 200 ppm Density at 15° C ..... 0.725 ÷ 0.740 Boiling point min. ..... ≥100 °C  
Identification ..... Positive Total sulphur ..... ≤ 10 ppm Boiling point max. ..... ≤140 °C

Code	Size	Packaging	Notes
348913	1 l	Glass bottle	
348912	2.5 l	Glass bottle	
508230	5 l	Plastic tank	
348914	20 kg	Drum	
508232	25 l	Drum	



## Petroleum ether 80 - 120°C

Etere di petrolio (Ligroina) 80 - 120°C • Ether de pétrole 80 - 120°C • Eter de petróleo 80 - 120°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H411  
P210-P241-P264-P273-P303+P361+P353-P304+P340-P403+P235

### Petroleum ether 80 - 120°C > RE - Pure

RE

Description ..... Clear colourless liquid Density at 15° C ..... ≥0.723 Boiling point min. ..... ≥80 °C  
Identification ..... Positive Residue on evaporation ..... ≤100 ppm Boiling point max. ..... ≤120 °C

Code	Size	Packaging	Notes
348901	1 l	Glass bottle	
348905	2.5 l	Glass bottle	





## Petroleum ether 80 - 100°C

Etere di petrolio (Benzina) 80 - 100°C • Ether de pétrole 80 - 100°C • Eter de petróleo 80 - 100°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H411  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

### Petroleum ether 80 - 100°C > RPE - For analysis

### RPE

Description .....	Clear colourless liquid	CCl4 miscibility .....	Complete	Density at 15° C .....	~ 0.709	Subst. reducing KMnO4 .....	≤20 ppm (5m)
Colour (APHA) .....	≤10	Anhyd.Ethyl alc.miscib.....	Complete	Water (K.F.) .....	≤0.01 %	Total sulphur .....	≤50 ppm
Identification .....	Positive	Benzene miscibility.....	Complete	Residue on evaporation .....	≤10 ppm		
Boiling point.....	80 ÷ 100 °C	Diethyl ether miscib.....	Complete	Acidity (acetic acid).....	≤5 ppm		
Carb.sulph. miscibility .....	Complete	Ready carbonizable substances.....	Conform	Aromatics .....	≤100 ppm		

Code	Size	Packaging	Notes
427031	1 l	Glass bottle	
427036	18 kg	Drum	

### Petroleum ether 80 - 100°C > RE - Pure

### RE

Description .....	Clear colourless liquid	Density at 15° C .....	~ 0.708	Boiling point min. ....	≥80 °C
Identification .....	Positive	Residue on evaporation .....	≤100 ppm	Boiling point max.....	≤100 °C

Code	Size	Packaging	Notes
323501	1 l	Glass bottle	
323503	2.5 l	Glass bottle	
323502	19 kg	Drum	



## Petroleum ether 75 - 120°C

Etere di petrolio (Ligroina) 75 - 120°C • Ether de pétrole 75 - 120°C • Eter de petróleo 75 - 120°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H411  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

### Petroleum ether 75 - 120°C > RPE - For analysis

### RPE

Description .....	Clear colourless liquid	Boiling point min. ....	≥75 °C	Water (K.F.) .....	≤50 ppm	Subst. reducing KMnO4 .....	≤20 ppm (5m)
Identification .....	Positive	Boiling point max.....	≤120 °C	Residue on evaporation .....	≤10 ppm	Total sulphur .....	≤50 ppm
Diethyl ether miscib.....	Complete	Ready carbonizable substances.....	Conform	Acidity (acetic acid).....	≤0.7 ppm		
Misc.with Abs.Ethanol.....	Complete	Density at 15° C .....	≥0.715	Alcalinity (NH3).....	≤0.2 ppm		

Code	Size	Packaging	Notes
458001	1 l	Glass bottle	
458003	2.5 l	Glass bottle	



## Petroleum ether 60 - 80°C

Etere di petrolio (Benzina) 60 - 80°C • Ether de pétrole 60 -80°C • Eter de petróleo 60 - 80°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H361f-H336-H373-H304-H411  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

### Petroleum ether 60 - 80°C > RPE - For analysis

### RPE

Description .....	Clear liquid	Boiling point.....	60 ÷ 80 °C	Water (K.F.) .....	≤100 ppm	Subst. reducing KMnO4 .....	≤20 ppm (5m)
Colour (APHA) .....	≤10	Ready carbonizable substances.....	Conform	Residue on evaporation .....	≤10 ppm	Total sulphur .....	≤50 ppm
Identification .....	Positive	Density at 20° C .....	0.660 ÷ 0.690	Acidity (acetic acid).....	≤5 ppm		

Code	Size	Packaging	Notes
427001	1 l	Glass bottle	
427003	2.5 l	Glass bottle	
427007	18 kg	Drum	



## Petroleum ether 55 - 85°C

Etere di petrolio (Benzina) 55 - 85°C • Ether de pétrole 55 - 85°C • Eter de petróleo 55 - 85°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H361f-H336-H373-H411  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

### Petroleum ether 55 - 85°C > RE - Pure

RE

Description ..... Clear colourless liquid Density at 20°C ..... 0.660 ÷ 0.690 Boiling point min. .... ≥55 °C  
Identification ..... Positive Residue on evaporation ..... ≤100 ppm Boiling point max. .... ≤85 °C

Code	Size	Packaging	Notes
323401	1 l	Glass bottle	
323403	2.5 l	Glass bottle	
323402	18 kg	Drum	



## Petroleum ether 40 - 70°C

Etere di petrolio 40 - 70°C • Ether de pétrole 40 - 70°C • Eter de petróleo 40 - 70°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H411  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

### Petroleum ether 40 - 70°C > RPE - For analysis

RPE

Description ..... Clear liquid Residue on evaporation ..... ≤20 ppm Total sulphur ..... ≤50 ppm Fe ..... ≤0.1 ppm  
Colour (APHA) ..... ≤10 Water (K.F.) ..... ≤100 ppm Al ..... ≤0.5 ppm Mg ..... ≤0.1 ppm  
Identification ..... Positive Boiling point min. .... ≥40 °C Ba ..... ≤0.1 ppm Mn ..... ≤0.02 ppm  
Alcohol miscibility ..... Complete Boiling point max. .... ≤70 °C Ca ..... ≤0.5 ppm Ni ..... ≤0.02 ppm  
Diethyl ether miscib. .... Complete Acidity (acetic acid) ..... ≤0.7 ppm Cd ..... ≤0.05 ppm Pb ..... ≤0.1 ppm  
Fat oils ..... Conform Alkalinity (NH<sub>3</sub>) ..... ≤0.2 ppm Co ..... ≤0.02 ppm Sn ..... ≤0.1 ppm  
Ready carbonizable substances ..... Conform Benzene ..... ≤100 ppm Cr ..... ≤0.02 ppm Zn ..... ≤0.1 ppm  
Density at 15° C ..... 0.645 ÷ 0.670 Subst. reducing KMnO<sub>4</sub> ..... ≤20 ppm (5m) Cu ..... ≤0.02 ppm

Code	Size	Packaging	Notes
447821	1 l	Glass bottle	
447824	5 l	Aluminium can	
447822	19 kg	Aluminium can	

### Petroleum ether 40 - 70°C > RE - Pure

RE

Description ..... Clear liquid Density at 15° C ..... 0.645 ÷ 0.670 Benzene ..... ≤200 ppm  
Colour (APHA) ..... ≤ 10 Residue on evaporation ..... ≤20 ppm Boiling point min. .... ≥40 °C  
Identification ..... Positive Water (K.F.) ..... ≤100 ppm Boiling point max. .... ≤70 °C

Code	Size	Packaging	Notes
341024	1 l	Glass bottle	
341022	19 kg	Aluminium can	



## Petroleum ether 40 - 65°C

Etere di petrolio 40 - 65°C • Ether de pétrole 40 - 65°C • Eter de petróleo 40 - 65°C

CAS: 64742-49-0

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H315-H336-H304-H411  
P210-P241-P264-P273-P303+P361+P353-  
P304+P340-P403+P235

### Petroleum ether 40 - 65°C > RS - PESTIPUR - For pesticide analysis

RS

GC chromatogram ..... Conform Colour ..... ≤ 10 Hazen GC-ECD.Individual peak (Lindane) .. ≤ 3 ng/l ng/l  
Boiling point ..... 40 - 65 °C Water content (K.F.) ..... ≤ 100 mg/Kg Retention time trichlorobenzene to mirex Retention time Atrazin to Coumaphos  
Density d15/4 ..... 0.640 - 0.655 Non volatile residue ..... ≤ 2 mg/Kg GC-NPD.Individual peak (Ethylparathion) ≤ 3

Code	Size	Packaging	Notes
447851	1 l	Glass bottle	
447852	2.5 l	Glass bottle	

## Petroleum ether 40 - 65°C > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.366 ÷ 1.376	Water (K.F.).....	≤ 100 ppm	Aromatic compounds.....	≤ 100 ppm
Colour .....	≤ 10 APHA	Boiling point.....	40 ÷ 65 °C	Assay (CPG).....	Conform		
Density at 15°C .....	0.645 ÷ 0.660	Residue on evaporation .....	≤ 10 ppm	n-Hexane.....	≤ 2 %		

Code	Size	Packaging	Notes
447811	1 l	Glass bottle	
447812	2.5 l	Glass bottle	
447813	5 l	Plastic tank	
447814	10 l	Metal tank	
447815	25 l	Drum	
447816	200 l	Metal drum	



## Petroleum ether 40 - 60°C

Etere di petrolio 40 - 60°C • Ether de pétrole 40 - 60°C • Eter de petróleo 40 - 60°C

CAS: 64742-49-0

### Classification transport

 ONU: 1268  
 Transport Hazard class: 3  
 Packing group II


### Danger

 H225-H315-H336-H304-H411  
 P210-P241-P264-P273-P303+P361+P353-  
 P304+P340-P403+P235

## Petroleum ether 40 - 60°C > RPE - For analysis

**RPE**

Description .....	Clear liquid	Ready carbonizable substances.....	Conform	Total sulphur .....	≤50 ppm	Fe .....	≤0.1 ppm
Colour (APHA) .....	≤10	Density at 15° C .....	0.647 ÷ 0.654	Al .....	≤0.5 ppm	Mg .....	≤0.1 ppm
Identification .....	Positive	Residue on evaporation .....	≤10 ppm	Ba .....	≤0.1 ppm	Mn .....	≤0.02 ppm
Alcohol miscibility.....	Complete	Water (K.F.).....	≤100 ppm	Ca .....	≤0.5 ppm	Ni .....	≤0.02 ppm
Diethyl ether miscib.....	Complete	Acidity (acetic acid).....	≤0.7 ppm	Cd .....	≤0.05 ppm	Pb .....	≤0.1 ppm
Boiling point min.....	≥40 °C	Alcalinity (NH3).....	≤0.2 ppm	Co .....	≤0.02 ppm	Sn .....	≤0.1 ppm
Boiling point max.....	≤60 °C	Benzene .....	≤100 ppm	Cr.....	≤0.02 ppm	Zn .....	≤0.1 ppm
Fat oils .....	Conform	Subst. reducing KMnO4.....	≤20 ppm (5m)	Cu .....	≤0.02 ppm	Assay (CPG).....	Conform

Code	Size	Packaging	Notes
447833	1 l	Glass bottle	
447831	2.5 l	Glass bottle	
447832	5 l	Aluminium can	
447836	5 l	Plastic tank	
447834	19 kg	Aluminium can	

## Petroleum ether 40 - 60°C > RE - Pure

**RE**

Description .....	Clear liquid	Density at 20°C .....	0.643 ÷ 0.673	Water (K.F.).....	≤ 200 ppm
Colour .....	≤ 10 APHA	Refractive index at 20°C.....	1.368 ÷ 1.378	Aromatics .....	≤100 ppm
Identification .....	Positive	Residue on evaporation .....	≤ 20 ppm	Distillation interval.....	40 ÷ 60 °C

Code	Size	Packaging	Notes
528283	5 l	Plastic tank	



## Petroleum ether 35 - 60°C

Etere di petrolio 35 - 60°C • Ether de pétrole 35 - 60°C • Eter de petróleo 35 - 60°C

CAS: 101316-46-5

### Classification transport

 ONU: 1268  
 Transport Hazard class: 3  
 Packing group II


### Danger

 H225-H336-H304-H411  
 P210-P241-P273-P303+P361+P353-P304+P340-  
 P403+P235

## Petroleum ether 35 - 60°C > RS - ATRASOL - For trace analysis, Suitable for Hydrocarbon index determination

**RS**

Appearance .....	Clear colourless liquid	Colour .....	≤ 5 Hazen	Retention time trichlorobenzene to mirex	GC-FID.Hydrocarbon oil index...≤ 0.05 mg/l	Retention time n-decane - n-tetracon-	tane
Refractive index at 20°C.....	1.355 - 1.359	Non volatile residue.....	≤ 2 mg/Kg	GC-FID.Individual peak (Lindane) ..	≤ 3 ng/l	GC-FID.Individual peak (C10-C40) ..	≤ 5 µg/l
Water content (K.F.).....	≤ 50 mg/Kg						

Code	Size	Packaging	Notes
P0883216	1 l	Glass bottle	
P0883221	2.5 l	Glass bottle	

**Contains n-Pentane, iso-Pentane, 1-pentene, 2,2-Dimethylbutane and cyclopentane**

## Petroleum ether 35 - 60°C > RS - PESTIPUR - For pesticide analysis

**RS**

Clear, colourless liq. appearance ..... Conform	Refractive index at 20°C ..... 1.355 - 1.359	<b>Retention time trichlorobenzene to mirex</b>	GC-NPD. Individual peak (Ethylparathion) ≤ 3 ng/l
Identification ..... Conform	Water content (K.F.) ..... ≤ 100 mg/Kg	Non volatile residue ..... ≤ 2 mg/Kg	<b>Retention time Atrazin to Coumaphos</b>
Colour ..... ≤ 10 Apha	GC-ECD. Individual peak (Lindane) .. ≤ 3 ng/l	Total sulphur (S) ..... ≤ 10 ppm	

Code	Size	Packaging	Notes
447862	1 l	Glass bottle	
447861	2.5 l	Glass bottle	

**Contains n-Pentane, iso-Pentane, 1-pentene, 2,2-Dimethylbutane and cyclopentane**

## Petroleum ether 35 - 60°C > RPE - For analysis

**RPE**

Description ..... Clear liquid	Density at 20°C ..... 0.643 ÷ 0.673	Water (K.F.) ..... ≤ 150 ppm	Bromine rating ..... ≤ 1
Colour ..... ≤ 10 APHA	Refractive index at 20°C ..... 1.368 ÷ 1.378	Aromatics ..... ≤ 20 ppm	Distillation intervalle ..... 35 ÷ 60 °C
Identification ..... Positive	Residue on evaporation ..... ≤ 10 ppm	Total sulphur ..... ≤ 10 ppm	Assay (CPG) ..... Conform

Code	Size	Packaging	Notes
528070	1 l	Glass bottle	
528071	2.5 l	Glass bottle	
528280	5 l	Plastic tank	
528281	25 l	Drum	
528282	200 l	Metal drum	



## Petroleum ether 30 - 50°C

Etere di petrolio 30 - 50°C • Ether de pétrole 30 - 50°C • Eter de petróleo 30 - 50°C

CAS: 101316-46-5

### Classification transport

ONU: 1268  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H336-H304-H411  
 P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

## Petroleum ether 30 - 50°C > RPE - For analysis

**RPE**

Description ..... Clear liquid	Residue on evaporation ..... ≤ 10 ppm	Subst. reducing KMnO4 ..... ≤ 20 ppm (5m)	Cu ..... ≤ 0.02 ppm
Colour (APHA) ..... ≤ 10	Water (K.F.) ..... ≤ 100 ppm	Total sulphur ..... ≤ 50 ppm	Fe ..... ≤ 0.1 ppm
Identification ..... Positive	Boiling point min. ..... ≥ 30 °C	Al ..... ≤ 0.5 ppm	Mg ..... ≤ 0.1 ppm
Alcohol miscibility ..... Complete	Boiling point max. ..... ≤ 50 °C	Ba ..... ≤ 0.1 ppm	Mn ..... ≤ 0.02 ppm
Diethyl ether miscib. .... Complete	Acidity (acetic acid) ..... ≤ 0.7 ppm	Ca ..... ≤ 0.5 ppm	Ni ..... ≤ 0.02 ppm
Fat oils ..... Conform	Alcalinity (NH3) ..... ≤ 0.2 ppm	Cd ..... ≤ 0.05 ppm	Pb ..... ≤ 0.1 ppm
Ready carbonizable substances ..... Conform	Benzene ..... ≤ 100 ppm	Co ..... ≤ 0.02 ppm	Sn ..... ≤ 0.1 ppm
Density at 15° C ..... ≥ 0.633	Unsaturated hydrocarbon ..... ≤ 0.4 %	Cr ..... ≤ 0.02 ppm	Zn ..... ≤ 0.1 ppm

Code	Size	Packaging	Notes
447801	1 l	Glass bottle	
447804	5 l	Aluminium can	
447802	18 kg	Aluminium can	

## Petroleum ether 30 - 50°C > RE - Pure

**RE**

Description ..... Clear colourless liquid	Density at 15° C ..... ≥ 0.633	Boiling point min. .... ≥ 30 °C
Identification ..... Positive	Residue on evaporation ..... ≤ 100 ppm	Boiling point max. .... ≤ 50 °C

Code	Size	Packaging	Notes
341034	1 l	Glass bottle	
341032	18 kg	Aluminium can	



## Petroleum ether 30 - 40°C

Etere di petrolio 30 - 40°C • Ether de pétrole 30 - 40°C • Eter de petróleo 30 - 40°C

CAS: 101316-46-5

### Classification transport

ONU: 1268  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H336-H304-H411  
P210-P241-P273-P303+P361+P353-P304+P340-P403+P235

### Petroleum ether 30 - 40°C > RPE - For analysis

### RPE

Description	Clear liquid	Ready carbonizable substances	Conform	Subst. reducing KMnO4	≤20 ppm (5m)	Cu	≤0.02 ppm
Colour (APHA)	≤10	Density at 15° C	≥0.630	Total sulphur	≤50 ppm	Fe	≤0.1 ppm
Identification	Positive	Water (K.F.)	≤100 ppm	Al	≤0.5 ppm	Mg	≤0.1 ppm
Alcohol miscibility	Complete	Residue on evaporation	≤10 ppm	Ba	≤0.1 ppm	Mn	≤0.02 ppm
Diethyl ether miscib.	Complete	Acidity (acetic acid)	≤0.7 ppm	Ca	≤0.5 ppm	Ni	≤0.02 ppm
Boiling point min.	≥30 °C	Alcalinity (NH3)	≤0.2 ppm	Cd	≤0.05 ppm	Pb	≤0.1 ppm
Boiling point max.	≤40 °C	Benzene	≤200 ppm	Co	≤0.02 ppm	Sn	≤0.1 ppm
Fat oils	Conform	Unsaturated hydrocarbon	≤0.4 %	Cr	≤0.02 ppm	Zn	≤0.1 ppm

Code	Size	Packaging	Notes
447793	1 l	Glass bottle	
447795	5 l	Aluminium can	
447792	18 kg	Aluminium can	

## Phenacetin ► p-Acetylphenetidine



## o-Phenanthroline monohydrate

o-Fenantrolina monoidrata • o-Phénanthroline monohydraté • o-Fenantrolina monohidrata

Synonym:

1,10-Phenanthroline monohydrate

C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>·H<sub>2</sub>O

Molecular Weight: 198,21

CAS: 5144-89-8

EEC-N: 200-629-2

### Classification transport

ONU: 3143  
Transport Hazard class: 6.1  
Packing group II



### Danger

H301-H412  
P264-P273-P270-P301+P310a-P330-P321

### o-Phenanthroline monohydrate > RPE - For analysis - ACS

### RPE

Description	White - pink powder	Suitab. as indicator	Conform	Assay	≥ 99.0 %
Identification	Positive	Iron sensitivity	Conform		

Code	Size	Packaging	Notes
450038	5 g	Glass bottle	
450039	25 g	Glass bottle	

### Redox indicator



## o-Phenanthroline-Iron (II) sulphate solution in sulphuric acid

o-Fenantrolina - Ferro solfato osò soluzione in acido solforico • o-Phénanthroline-Fer (II) sulfate • o-Fenantrolina-Hierro (II) sulfato solución en acido sulfúrico

Synonym:

1,10-Phenanthroline iron(II) sulfate complex  
o-Phenanthroline ferrous sulfate complex

[Fe(C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>)<sub>3</sub>]SO<sub>4</sub>

Molecular Weight: 692,52

CAS: 14634-91-4

H412

P273-P501a

### o-Phenanthroline-Iron (II) sulphate solution in sulphuric acid > RPE - For analysis

### RPE

Description	Red clear liquid	Identification	Positive
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Code	Size	Packaging	Notes
E450043	100 ml	Glass bottle	

## 1,10-Phenanthroline iron(II) sulfate complex ► Feroin 0.025 mol/l solution



## Phenylhydrazine hydrochloride

Fenilidrazina cloridrato • Phénylhydrazine chlorhydrate • Fenilhidracina clorhidrato

$C_6H_5NHNH_2 \cdot HCl$   
Molecular Weight: 144,61  
CAS: 59-88-1  
EEC-N: 200-444-7

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H301-H311-H331-H315-H319-H317-H341-H350-  
H372-H400-HA26  
P264-P273-P271-P304+P340-P305+P351+P338-  
P301+P310a

### Phenylhydrazine hydrochloride > RPE - For analysis

**RPE**

Description ..... White powder      Identification ..... Positive      Sulphated ash ..... ≤ 0.05 %      Assay (acidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
450843	50 g	Plastic bottle	



## Phenol

Fenolo • Phénol • Fenol

Synonym:  
Hydroxybenzene

$C_6H_5OH$   
Molecular Weight: 94,11  
CAS: 108-95-2  
EEC-N: 203-632-7

**Classification transport**  
ONU: 1671  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H311-H331-H314-H341-H373  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Phenol > RPE - For analysis - ACS

**RPE**

Description ..... Crystalline mass      Appearance of solution ..... Conform ACS      Water (K.F.) ..... ≤ 0.5 %      Assay (iodometric) ..... ≥ 99.0 %  
Identification ..... Positive      Freezing point ..... ≥ 40.5 °C (s.s.)      Residue on evaporation ..... ≤ 0.05 %

Code	Size	Packaging	Notes
451287	1 kg	Glass bottle	

### Phenol > RPE - Crystals - For analysis

**RPE**

Description ..... Colourless or faintly pink or faintly yellowish      Water (K.F.) ..... ≤ 0.2 %      Cd ..... ≤ 0.05 ppm      Mn ..... ≤ 0.02 ppm  
Identification ..... Positive      Residue on evaporation ..... ≤ 100 ppm      Co ..... ≤ 0.02 ppm      Ni ..... ≤ 0.1 ppm  
Melting point ..... ≥ 40.5 °C      Chloride ..... ≤ 5 pmm      Cr ..... ≤ 0.05 ppm      Zn ..... ≤ 0.5 ppm  
Ca ..... ≤ 0.5 ppm      Mg ..... ≤ 0.1 ppm      Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
451293	500 g	Glass bottle	
451295	25 kg	Plastic bucket	

### Phenol > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBapharm**

Description ..... Crystalline mass      Appearance of solution ..... Conform Ph.Eur.      Water (K.F.) ..... ≤ 0.5 %  
Identification ..... Positive      Reaction, solution app. .... Conform USP-NF      Not volatile residue ..... ≤ 0.05 %  
Acidity ..... Conform Ph.Eur.      Freezing point ..... ≥ 39.5 °C      Assay (iodometric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
343407	1 kg	Glass bottle	
343408	5 kg	Plastic jar	



## Phenol liquified 85%

Fenolo liquido 85% • Phénol liquide 85% • Fenol liquido 85%

Synonym:  
Hydroxybenzene

$C_6H_5OH$   
Molecular Weight: 94.11  
CAS: 108-95-2

**Classification transport**  
ONU: 2821  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H311-H330-H314-H318-H341-H373  
P210-P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Phenol liquified 85% > RE - Pure

**RE**

Description ..... Clear liquid      Reaction ..... Conform      Assay ..... 82.0 ÷ 86.5 %  
Identification ..... Positive      Not volatile residue ..... ≤ 0.05 %

Code	Size	Packaging	Notes
343411	1 l	Glass bottle	
343414	5 l	Metallic can	
343412	27 kg	Metallic can	

**Phenol red**

Rosso fenolo • Rouge de phénol • Rojo de fenol

Synonym:  
Phenolsulfonphthalein $C_{19}H_{14}O_5S$ 

Molecular Weight: 354,38

CAS: 143-74-8

EEC-N: 205-609-7

**Warning**

H315-H319-H335

P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

**Phenol red > RPE - For analysis - ACS****RPE**Description ..... Red crystalline powder    Appearance of solution ..... Conform ACS    pH range ..... 6.8 - 8.2  
Identification ..... Positive    Colour change ..... yellow red

Code	Size	Packaging	Notes
476838	5 g	Glass bottle	
476839	25 g	Glass bottle	

**Clark indicator series. Dye for microscopy****Phenol Red solution 0.2% in ethanol**

Rosso fenolo soluzione 0,2% in alcole etilico • Rouge de phénol solution 0.2% dans l'éthanol • Rojo de fenol solución 0.2% en alcohol etilico

**Warning**

H319

P264-P280-P305+P351+P338-P337+P313

**Phenol Red solution 0.2% in ethanol > RPE - For analysis****RPE**

Description ..... Red clear liquid    Identification ..... Positive    Sensitivity( 6.8-8.4) ..... Conform    Colour change ..... yellow red

Code	Size	Packaging	Notes
E476845	250 ml	Glass bottle	

**Indicator series Clark indicator acid-base (pH 6.4 to 8.2)****Phenol red solution**

Rosso fenolo solzione • Rouge de phénol solution • Rojo de fenol solución

**Warning**

H315-H319

P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

**Phenol red solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611063601	100 ml	Plastic bottle	Ref Ph.Eur 1063601 / Colour change: pH 6.8 (yellow) to pH 8.4 (reddish-violet)
611063603	500 ml	Plastic bottle	Phenol red solution R2 Ref Ph.Eur 1063603

**Phenolphthalein**

Fenolftaleina • Phénolphtaléine • Fenolftaleína

Synonym:  
3,3-bis(4-Hydroxyphenyl)-1(3H)isobenzofuranone $C_{20}H_{14}O_4$ 

Molecular Weight: 318,33

CAS: 77-09-8

EEC-N: 201-004-7

**Danger**

H341-H350-H361f-HA26

P280-P201-P202-P308+P313-P405-P501a

**Phenolphthalein > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**Description ..... White powder    Appear. of alcohol sol. .... Conform    pH range ..... 8.0 ÷ 10.0  
Identification ..... Positive    Colour change ..... Colourless-red

Code	Size	Packaging	Notes
451154	100 g	Plastic bottle	
451156	500 g	Plastic bottle	



## Phenolphthalein solution 1% in ethanol

Fenolftaleina soluzione 1% in alcolico etilico • Phénolphtaléine solution à 1% dans l'éthanol • Fenolftaleína solución 1% en alcohol etilico

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group III



### Warning

H226-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Phenolphthalein solution 1% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611063703	100 ml	Plastic bottle	Phenolphthalein solution R1 Ref Ph.Eur 1063703

### Phenolphthalein solution 1% in ethanol > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000131	100 ml	Plastic bottle	Phenolphthalein TS

### Phenolphthalein solution 1% in ethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Sensit.(pH 8.3-10.0).....Conform    Colour change.....colourless-purple

Code	Size	Packaging	Notes
451191	250 ml	Glass bottle	
451192	1 l	Glass bottle	

**Acid-base indicator (pH 8.2 to 10.0)**



## Phenolphthalein solution 0.1%

Fenolftaleina soluzione 0.1% • Phénolphtaléine solution 0.1% • Fenolftaleína solución 0.1%

C<sub>6</sub>H<sub>8</sub>N<sub>2</sub>.HCl  
Molecular Weight: 144,6  
CAS: 59-88-1

### Classification transport

ONU: 1170  
Transport Hazard class: 3  
Packing group III



### Warning

H226-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Phenolphthalein solution 0.1% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611063702	100 ml	Plastic bottle	Ref Ph.Eur 1063702



## Phenolphthalein paper

Cartina fenolftaleina • Papier phénolphtaléine • Fenolftaleína papel

### Phenolphthalein paper > RS - For pHmetry

RS

Code	Size	Packaging	Notes
435060000	1 roll	Box	Paper phenolphthalein, Color change : white --> red, change pH 8.3-->10.0



## Phenylacetic acid

Acido fenilacetico • Acide phénylacétique • Acido fenilacético

Synonym:  
o-tolyl acid  
Benzeneacetic acid

C<sub>8</sub>H<sub>5</sub>CH<sub>2</sub>COOH  
Molecular Weight: 136,14  
CAS: 103-82-2  
EEC-N: 203-148-6



### Warning

H319  
P264-P280-P305+P351+P338-P337+P313

### Phenylacetic acid > RPE - For analysis

RPE

Description ..... White crystalline powder    Total chlorine .....≤50 ppm    Residue on ignition .....≤500 ppm    Assay (acidimetric) .....≥99 %  
Identification ..... Positive    Water-insoluble matter .....≤200 ppm    Total sulphur .....≤20 ppm  
Melting point..... 75.0 ÷ 77.0 °C    Heavy metals (Pb).....≤10 ppm    Fe .....≤20 ppm

Code	Size	Packaging	Notes
405598	100 g	Plastic bottle	
405597	1 kg	Plastic bottle	



**Phenylacetic acid > RE - Pure****RE**

Description ..... White crystals    Identification ..... Positive    Melting point ..... 75.0 ÷ 77.0 °C    Assay (acidimetric) ..... ≥97 %

Code	Size	Packaging	Notes
303507	1 kg	Plastic bottle	

**L-Phenylalanine**

L-Fenilalanina • L-Phénylalanine • L-Fenilalanina

Synonym:  
(S)-2-Amino-3-phenylpropionic acid

$C_9H_9CH_2CH(NH_2)COOH$   
Molecular Weight: 165,19  
CAS: 63-91-2  
EEC-N: 200-568-1

**L-Phenylalanine > RPE - For analysis****RPE**Description ..... White crystalline powder    Pb ..... ≤ 10 ppm    Heavy metals (Pb) ..... ≤ 20 ppm  
Identification ..... Positive    pH solution 1% ..... 5.4 ÷ 6.0    Residue on ignition ..... ≤ 0.1 %  
Potere rotator. specif.(C=2 in Acqua) ..... -33.0 ÷ -35.2 ° s.s.    Loss on drying ..... ≤ 0.3 %    Assay (non-aqueous medium) ..... 98.5 ÷ 102.0 % (s.s.)

Code	Size	Packaging	Notes
450328	5 g	Glass bottle	
450329	100 g	Glass bottle	

**2-Phenylethanol**

Alcole 2-feniletilico • 2-Phényléthanol • Alcohol 2-feniletilico

Synonym:  
2-Phenylethyl alcohol

$C_6H_5CH_2CH_2OH$   
Molecular Weight: 122,17  
CAS: 60-12-8  
EEC-N: 200-456-2

**Danger**

H302-H311-H315-H318  
P264-P280h-P280i-P305+P351+P338-P330-  
P332+P313

**2-Phenylethanol > ERBApharm - According to pharmacopoeia : USP****ERBApharm**Description ..... Clear colourless liquid    Aldehyde ..... Conform USP-NF    Sulphated ash ..... ≤50 ppm  
Identification ..... Positive    Density at 25° C ..... 1.017 ÷ 1.020    Residue solvents ..... Conform USP-NF  
Chlorinated compounds ..... Conform USP-NF    Refractive index at 20°C ..... 1.531 ÷ 1.534    Origin (BSE/TSE) ..... Vegetable

Code	Size	Packaging	Notes
529022	1 l	Glass bottle	
529021	2.4 l	Glass bottle	

**2-Phenylethanol > RE - Pure****RE**Description ..... Liquido limpido incolore    Density at 20° C ..... 1.017 ÷ 1.023    Assay (CPG) ..... ≥ 98 %  
Identification ..... Positive    Refractive index at 20° C ..... 1.529 ÷ 1.535

Code	Size	Packaging	Notes
308731	1 l	Glass bottle	

**Phenylfluorone**

Fenilfluorone • Phénylfluorone • Fenilfluorona

$C_{19}H_{12}O_5$   
Molecular Weight: 320,3  
CAS: 975-17-7  
EEC-N: 213-550-3

**Warning**

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

**Phenylfluorone > RPE - For analysis****RPE**

Description ..... Brown powder    Identification ..... Positive    Germanium sensitivity ..... ≤0.5 µg/ml

Code	Size	Packaging	Notes
450777	1 g	Glass bottle	

**Reagent for Ge determination**



## Phenylhydrazine hydrochloride solution

Fenilidrazina cloridrato soluzione • Phénylhydrazine chlorhydrate solution • Fenilidracina clorhidrata solución

$C_6H_8N_2 \cdot HCl$   
Molecular Weight: 144,6  
CAS: 59-88-1

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



**Danger**  
H350-HEU208-HA26  
P280-P201-P202-P308+P313-P405-P501a

### Phenylhydrazine hydrochloride solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611064501	100 ml	Glass bottle	Ref Ph.Eur 1064501



## Phloroglucinol

Floroglucina • Phloroglucinol • Floroglucina

Synonym:  
1,3,5-Trihydroxybenzene

$1,3,5-(OH)_3C_6H_3$   
Molecular Weight: 126,11  
CAS: 108-73-6  
EEC-N: 203-611-2



**Warning**  
H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

### Phloroglucinol > RE - Pure

RE

Description ..... Polvere o scaglie bianche      Alcohol solubility ..... Conform      Water (K.F.) ..... ≤ 2 %  
Identification ..... Positive      Melting point ..... 210 ÷ 215 ° C      Assay (HPLC) ..... ≥ 99 %

Code	Size	Packaging	Notes
452031	10 g	Glass bottle	
452033	50 g	Glass bottle	



## Phloxin B

Floxina B • Phloxine B • Floxina B

Synonym:  
Acid Red 92  
2',4',5',7'-Tetrabromo-4,5,6,7-tetrafluoresceine disodium salt

$C_{20}H_2Br_4Cl_4Na_2O_5$   
Molecular Weight: 829,64  
CAS: 18472-87-2  
EEC-N: 242-355-6

### Phloxin B > RS - For microscopy - C.I. 45410

RS

Description ..... Red brown powder      Identification ..... Positive

Code	Size	Packaging	Notes
452051	10 g	Glass bottle	
452052	25 g	Glass bottle	

**Dye for botanical, cytology and histology**



## Phosphate standard solution

Fosfati standard soluzione • Phosphate solution standard • Fosfato, solución patrón

### Phosphate standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002200	100 ml	Plastic bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002200
615004200	1 l	Plastic bottle	A 200 ppm solution Ref Ph.Eur 5004200

### Phosphate standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503341	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503343	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Phosphate buffer pH 2.0**

Tampone fosfato pH 2.0 • Tampon phosphate pH 2.0 • Tampon fosfato pH 2.0

**Phosphate buffer pH 2.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614007900	1 l	Plastic bottle	Ref Ph.Eur 4007900

**Phosphate buffer pH 3.0**

Tampone fosfato pH 3.0 • Tampon phosphate pH 3.0 • Tampon fosfato pH 3.0

**Phosphate buffer pH 3.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614000501	100 ml	Plastic bottle	Ref Ph.Eur 4000500
614000500	1 l	Plastic bottle	Ref Ph.Eur 4000500

**Phosphate buffer pH 5.5**

Tampone fosfato pH 5.5 • Tampon phosphate pH 5.5 • Tampon fosfato pH 5.5

**Phosphate buffer pH 5.5 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614002000	1 l	Plastic bottle	Ref Ph.Eur 4002000

**Phosphate buffer pH 6.8**

Tampone fosfato pH 6.8 • Tampon phosphate pH 6.8 • Tampon fosfato pH 6.8

**Phosphate buffer pH 6.8 > RS - For analysis**

RS

pH..... 6.75 - 6.85    Temperature..... 19 ± 21 °C

Code	Size	Packaging	Notes
524952	10 l	Plastic tank	

**Composition : Potassium dihydrogen phosphate 6.8g/l, sodium hydroxide 0.9g/l, deionized water 992.3 g/l. Traceable to NIST****Phosphate buffer pH 6.8 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614003400	1 l	Plastic bottle	Ref Ph.Eur 4003400

**Phosphate buffer pH 6.0**

Tampone fosfato pH 6.0 • Tampon phosphate pH 6.0 • Tampon fosfato pH 6.0

**Phosphate buffer pH 6.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3**

RS

Code	Size	Packaging	Notes
614002400	1 l	Plastic bottle	Ref Ph.Eur 4002400

**Phosphate buffer pH 7.4**

Tampone fosfato pH 7.4 • Tampon phosphate pH 7.4 • Tampon fosfato pH 7.4

**Phosphate buffer pH 7.4 > RS - For analysis**

RS

Temperature of measurement..... 19 - 21 °C    pH..... 7.35 - 7.45 unità pH

Code	Size	Packaging	Notes
524965	5 l	Kubidos	
PS0740/95	5 l	Kubidos	

**Composition : Potassium dihydrogen phosphate 1.9g/l, disodium hydrogen phosphate 19.3g/l, deionized water 992.5 g/l. Traceable to NI ST**

## Phosphate buffer pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614004800	1 l	Plastic bottle	Ref Ph.Eur 4004800



## Phosphate buffer pH 9.0

Tampone fosfato pH 9.0 • Tampon phosphate pH 9.0 • Tampon fosfato pH 9.0

## Phosphate buffer pH 9.0 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614008300	1 l	Plastic bottle	Ref Ph.Eur 4008300



## Phosphomolybdic acid

Acido fosfomolibdico • Acide phosphomolybdique • Acido fosfomolibdico

 Synonym:  
Molybdophosphoric acid

 $H_3PO_4 \cdot 20MoO_3 \cdot 48H_2O$   
 Molecular Weight: 3939,5  
 CAS: 51429-74-4

### Classification transport

 ONU: 3084  
 Transport Hazard class: 8  
 Packing group II


### Danger

 H272-H314  
 P221-P264-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

## Phosphomolybdic acid > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Yellow crystals	Chloride.....	≤ 200 ppm	Sulphate.....	≤ 250 ppm
Identification .....	Positive	Water-insoluble matter .....	≤ 100 ppm	Ca.....	≤ 200 ppm
Ammonium.....	≤ 100 ppm	Heavy metals (Pb).....	≤ 50 ppm	Fe.....	≤ 50 ppm

Code	Size	Packaging	Notes
405913	50 g	Glass bottle	
405915	250 g	Glass bottle	



## Phosphomolybdotungstic reagent

Reattivo fosfomolibdotungstico • Réactif phosphomolybdotungstique • Fosfomolibdotungstenico reattivo

### Classification transport

 ONU: 3264  
 Transport Hazard class: 8  
 Packing group III


### Warning

 H302-H315-H319  
 P264-P280-P305+P351+P338-P330-P332+P313-  
 P337+P313

## Phosphomolybdotungstic reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611065000	100 ml	Plastic bottle	Ref Ph.Eur 1065000

**Storage: at 2 °C to 8 °C**


## Phosphonic acid

Acido fosfonico • Acide phosphonique • Acido fosfonico

 Synonym:  
Phosphorous acid

 $H_3PO_3$   
 Molecular Weight: 82  
 CAS: 13598-36-2  
 EEC-N: 237-066-7

### Classification transport

 ONU: 2834  
 Transport Hazard class: 8  
 Packing group III


### Danger

 H302-H314  
 P264-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

## Phosphonic acid > RPE - For analysis

**RPE**

Description .....	White crystals	Chloride.....	≤ 50 ppm	Heavy metals (Pb).....	≤ 20 ppm	Fe.....	≤ 5 ppm
Identification .....	Positive	Phosphoric acid .....	≤ 1 %	Sulphate.....	≤ 10 ppm	Assay (acidimetric) .....	≥ 98.5 %

Code	Size	Packaging	Notes
406056	500 g	Glass bottle	
406053	20 kg	Plastic bucket	

Phosphoric acid ▶ Orthophosphoric acid 99%

Phosphoric anhydride ▶ Phosphorus pentoxide

## Phosphorous acid ► Phosphonic acid



## Phosphorus standard solution

Fosforo standard soluzione • Phosphore solution standard • Fósforo, solución patrón



## Danger

H314

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Phosphorus standard solution &gt; RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505762	100 ml	Plastic bottle	conc. 10 ppm Matrix : Water
505765	100 ml	Plastic bottle	conc. 100 ppm Matrix : Water
505763	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Phosphorus standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503791	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503795	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
503793	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503797	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Phosphorus pentoxide

Anidride fosforica • Anhydride phosphorique • Anhídrido fosfórico

Synonym:

Phosphoric anhydride



Molecular Weight: 141,94

CAS: 1314-56-3

EEC-N: 215-236-1

## Classification transport

ONU: 1807

Transport Hazard class: 8

Packing group II



## Danger

H314

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Phosphorus pentoxide &gt; RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White powder    Water-insoluble matter ..... ≤200 ppm    Ammonium ..... ≤100 ppm    Assay (acidimetric) ..... ≥98.0 %  
 Identification ..... Positive    Reducing KMnO4 (P203) .. ≤200 ppm(10m)    Heavy metals (Pb)..... ≤100 ppm

Code	Size	Packaging	Notes
421808	100 g	Glass bottle	
421802	250 g	Glass bottle	

## Phosphorus pentoxide &gt; RE - Pure

RE

Description ..... White powder    Identification ..... Positive    Heavy metals (Pb)..... ≤500 ppm    Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
317753	250 g	Glass bottle	

**Phosphosulfuric acid**

Acido fosfosolfurico • Acide phosphosulfurique • Acido fosfosulfúrico

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group II**Danger**H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Phosphosulfuric acid > RS - For nitrogen detection according to Kjeldahl****RS**

Description ..... Clear colourless liquid Identification ..... Positive Ammonium ..... ≤1 ppm Nitrate ..... ≤0.2 ppm

Code	Size	Packaging	Notes
E406101	1 l	Glass bottle	

**Phosphotungstic acid**

Acido fosfotungstico • Acide phosphotungstique • Acido fosfotúngstico

Synonym:

*Tungstophosphoric acid* $H_3PO_4 \cdot 12WO_3 \cdot H_2O$   
Molecular Weight: 2,880,05  
CAS: 12501-23-4**Classification transport**ONU: 3260  
Transport Hazard class: 8  
Packing group III**Danger**H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Phosphotungstic acid > RPE - For analysis****RPE**Description ..... White powder Sulphate ..... ≤ 50 ppm Heavy metals (Pb) ..... ≤ 40 ppm Assay ..... ≥ 82 %  
Identification ..... Positive Ammonium ..... ≤ 50 ppm Fe ..... ≤ 30 ppm  
Chloride ..... ≤ 20 ppm Residue on calcination ..... ≤ 17 % Na ..... ≤ 100 ppm

Code	Size	Packaging	Notes
406154	100 g	Glass bottle	

**Phosphotungstic acid solution**

Acido fosfotungstico soluzione • Acide phosphotungstique solution • Acido fosfotúngstico solución

Synonym:

*Phosphotungstic acid hydrate  
Tungstophosphoric acid***Phosphotungstic acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611065200	100 ml	Plastic bottle	Ref Ph.Eur 1065200

**o-Phthalaldehyde**

o-Ftalaldeide • o-Phtalaldéhyde • o-Ftaldialdehído

Synonym:

*Benzene-1,2-dicarboxaldehyde* $C_8H_4(CHO)_2$   
Molecular Weight: 134,13  
CAS: 643-79-8  
EEC-N: 211-402-2**Danger**H301  
P264-P270-P301+P310a-P330-P321-P405**o-Phthalaldehyde > RPE - For analysis****RPE**Description ..... Yellow-orange crystals Melting point ..... 54 ÷ 57 ° C Acidity (Phthalic acid) ..... ≤ 0.3 %  
Identification ..... Positive Water (K.F.) ..... ≤ 0.5 % Assay (GLC) ..... ≥ 98.0 %

Code	Size	Packaging	Notes
452751	10 g	Glass bottle	
452752	100 g	Glass bottle	

**Phthalic acid**

Acido ftalico • Acide phtalique • Acido ftálico

Synonym:  
1,2-Benzenedicarboxylic acid

1,2-(COOH)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>  
Molecular Weight: 166,13  
CAS: 88-99-3  
EEC-N: 201-873-2

**Warning**

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

**Phthalic acid > RPE - For analysis - Reag. Ph.Eur.****RPE**

Description ..... White crystalline powder Identification ..... Positive Melting point ..... ~ 210 °C Assay (acidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
406205	250 g	Plastic bottle	

**Phthalic anhydride**

Anidride ftalica • Anhydride phtalique • Anhídrido ftálico

C<sub>6</sub>H<sub>4</sub>(CO)<sub>2</sub>O  
Molecular Weight: 148,12  
CAS: 85-44-9  
EEC-N: 201-607-5

**Classification transport**

ONU: 2214  
Transport Hazard class: 8  
Packing group III

**Danger**

H302-H315-H318-H334-H317-H335  
P264-P271-P284-P304+P340-P305+P351+P338-P342+P311a

**Phthalic anhydride > RE - Pure****RE**

Description ..... White flakes Identification ..... Positive Melting point ..... 129 ÷ 132 °C Assay ..... ≥ 98.5 %

Code	Size	Packaging	Notes
318007	1 kg	Plastic bottle	

**3-Picolinic acid ► Nicotinic acid****Picric acid solution**

Acido picrico soluzione • Acide picrique solution • Acido picrico solución

Synonym:  
2,4,6-Trinitrophenol

C<sub>6</sub>H<sub>3</sub>N<sub>3</sub>O<sub>7</sub>  
Molecular Weight: 229,11  
CAS: 88-89-1

HEU210

**Picric acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611065801	100 ml	Plastic bottle	Ref Ph.Eur 1065801
611065802	100 ml	Plastic bottle	Picric acid solution R1 Ref Ph.Eur 1065802

**Picric acid solution > RPE - For analysis****RPE**

Description ..... Yellow clear liquid Identification ..... Positive Density at 20° C ..... 1.00 ÷ 1.02 Assay ..... 1.1 ÷ 1.3 %

Code	Size	Packaging	Notes
409302	500 ml	Plastic bottle	
409305	2.5 l	Plastic bottle	

**Saturated aqueous solution ~ 1.2%**



## Piperidine

Piperidina • Pipéridine • Piperidina

Synonym:

Hexahydropyridine

$\text{NH}(\text{CH}_2)_4\text{CH}_2$   
Molecular Weight: 85,15  
CAS: 110-89-4  
EEC-N: 203-813-0

**Classification transport**  
ONU: 2401  
Transport Hazard class: 8  
Packing group I



### Danger

H225-H311-H331-H314  
P210-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Piperidine > RS - For peptide synthesis

RS

Refractive index at 20°C ..... 1.45 - 1.454    Water content (K.F.) ..... ≤ 3000 mg/Kg    Colour ..... ≤ 10 Hazen    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0663516	1 l	Glass bottle	
P0663521	2.5 l	Glass bottle	

### Piperidine > RPE - For analysis

RPE

Description ..... Clear liquid    Density at 20° C ..... 0.856 ÷ 0.866    Water (K.F.) ..... <0.3 %  
Colour ..... < 50 APHA    Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
469551	100 ml	Glass bottle	
469552	500 ml	Glass bottle	

### Piperidine > RE - Pure

RE

Refractive index at 20°C ..... 1.450 - 1.454    Density d20/4 ..... 0.856 - 0.866    Colour ..... ≤ 20 Hazen  
Identification (IR) ..... Conform    Water content (K.F.) ..... ≤ 5000 mg/Kg    Assay (GC) ..... ≥ 99 %

Code	Size	Packaging	Notes
P0660216	1 l	Glass bottle	
P0660221	2.5 l	Glass bottle	
P0660248	25 l	Metal drum	



## Platinum standard solution

Platino standard soluzione • Platine solution standard • Platino, solución patrón

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group III



### Platinum standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505787	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505788	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid
505789	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Platinum standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503831	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503835	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503833	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503837	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



**Polyvinylpyrrolidone**

Polivinilpirrolidone • Polyvinylpyrrolidone • Polivinilpirrolidona

Synonym:

PVP

Polyvidone

 $(C_6H_9NO)_n$ 

Molecular Weight: 25000-30000

CAS: 9003-39-8

**Danger**

H300

P264-P270-P301+P310a-P330-P321-P405

**Polyvinylpyrrolidone > RPE - For analysis****RPE**

Description ..... White powder Identification ..... Positive Loss on drying ..... ≤5 %

Code	Size	Packaging	Notes
470071	500 g	Plastic bottle	
470072	1,5 kg	Plastic jar	

**Ponceau red BS**

Rosso Ponceau BS • Rouge Ponceau BS • Rojo Ponceau BS

Synonym:

Ponceau BS

Acid Red 66

 $C_{22}H_{14}N_4Na_2O_7S_2$ 

Molecular Weight: 556,48

CAS: 4196-99-0

EEC-N: 224-084-5

**Ponceau red BS > RS - For microscopy - C.I. 26905****RS**

Description ..... Red brick powder Identification ..... Positive

Code	Size	Packaging	Notes
476941	10 g	Glass bottle	

**Dye for histology****Ponceau red S**

Rosso Ponceau S • Rouge Ponceau S • Rojo Ponceau S

Synonym:

3-Hydroxy-4-(2-sulfo-4-[4-sulfophenylazo]phenylazo)-2,7-naphthalenedisulfonic acid sodium salt

 $C_{22}H_{12}N_4Na_4O_{13}S_4$ 

Molecular Weight: 760,56

CAS: 6226-79-5

EEC-N: 228-319-2

**Warning**

H315-H319-H335

P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

**Ponceau red S > RS - For microscopy - C.I. 27195****RS**

Description ..... Brown powder Identification ..... Positive

Code	Size	Packaging	Notes
476981	5 g	Glass bottle	
476982	25 g	Glass bottle	

**Dye for histochemistry****Potassium standard solution**

Potassio standard soluzione • Potassium solution standard • Potasio, solución patrón

**Danger**

H314

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Potassium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615002401	100 ml	Plastic bottle	A 20 ppm solution : to dilute according to Ref Ph.Eur 5002401
615002402	100 ml	Plastic bottle	A 0.1 % solution Ref Ph.Eur 5002402
615002409	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002400
615005100	100 ml	Plastic bottle	A 600 ppm solution : to dilute according to Ref Ph.Eur 5005100

## Potassium standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505682	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505685	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505683	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Potassium standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
503671	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503675	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503673	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503677	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Potassium standard solution > RS - Standard solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507753	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497605	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
506960	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497601	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Potassium standard solution > RS - NORMEX - Concentrated solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
470081		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Potassium standard solution > RS - Standard solution for ion chromatography

**RS**

Code	Size	Packaging	Notes
503271	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503273	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Potassium acetate

Potassio acetato • Potassium acétate • Potasio acetato

CH<sub>3</sub>COOK  
Molecular Weight: 98,15  
CAS: 127-08-2  
EEC-N: 204-822-2

## Potassium acetate > RPE - For analysis

**RPE**

Description ..... White granular powder Chloride..... ≤ 50 ppm Fe ..... ≤ 20 ppm  
Identification ..... Positive Sulphate..... ≤ 50 ppm Zn..... ≤ 20 ppm  
pH sol. 5% at 20°C ..... 7.5 ÷ 8.5 Heavy metals (Pb)..... ≤ 10 ppm Assay (non-aqueous medium)..... ≥ 99 %

Code	Size	Packaging	Notes
470145	100 g	Plastic bottle	
470146	500 g	Plastic bottle	
470147	1 kg	Plastic bottle	
470143	25 kg	Plastic bucket	

## Potassium acetate > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.

**ERBApharm**

Description .....	White crystalline powder	pH solution 5% .....	7.5 ÷ 9.0	Sulphate .....	≤200 ppm	Assay (non-aqueous medium) .....	99.0 ÷ 101.0 % s.s.
Identification .....	Positive	Loss on drying .....	≤3.0 %	Al .....	≤1 ppm	Origin (BSE/TSE) .....	Synthesis
Appearance of solution .....	Conform Ph.Eur.	Chloride .....	≤200 ppm	Fe .....	≤20 ppm		
Reducing substances .....	Conform Ph.Eur.	Heavy metals (Pb) .....	≤4 ppm	Na .....	≤0.5 %		

Code	Size	Packaging	Notes
358907	1 kg	Plastic bottle	
358908	5 kg	Plastic jar	
358903	25 kg	Plastic bucket	

## Potassium aluminum sulfate dodecahydrate ▶ Aluminum potassium sulfate dodecahydrate

## Potassium antimonyl tartrate trihydrate ▶ Antimony potassium tartrate



### Potassium bicarbonate

Potassio bicarbonato • Potassium bicarbonate • Potasio bicarbonato

Synonym:

*Potassium hydrogen carbonate*


Molecular Weight: 100,12

CAS: 298-14-6

EEC-N: 206-059-0

### Potassium bicarbonate > RPE - For analysis - ACS

**RPE**

Description .....	White crystalline powder	Chloride .....	≤10 ppm	Ca .....	≤20 ppm	Assay (alkalimetric) .....	99.7 ÷ 100.5 % s.s.
Identification .....	Positive	Phosphate .....	≤5 ppm	Fe .....	≤5 ppm		
Water-insoluble matter .....	≤100 ppm	Total sulphur .....	≤30 ppm	Mg .....	≤10 ppm		
Ammonium .....	≤5 ppm	Heavy metals (Pb) .....	≤5 ppm	Na .....	≤300 ppm		

Code	Size	Packaging	Notes
470285	100 g	Plastic bottle	
470286	500 g	Plastic bottle	
470287	1 kg	Plastic bottle	
470289	5 kg	Plastic jar	



### Potassium bisulfate

Potassio bisolfato • Potassium bisulfate • Potasio bisolfato

Synonym:

*Potassium hydrogen sulfate*


Molecular Weight: 136,17

CAS: 7646-93-7

EEC-N: 231-594-1

#### Classification transport

ONU: 2509

Transport Hazard class: 8

Packing group II



#### Danger

H314-H335

P264-P271-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Potassium bisulfate > RPE - For analysis

**RPE**

Description .....	White crystals	Ammonium .....	≤ 20 ppm	Heavy metals (Pb) .....	≤ 20 ppm	Fe .....	≤ 20 ppm
Identification .....	Positive	Chloride .....	≤ 20 ppm	Ca .....	≤ 200 ppm	Assay (acidimetric) .....	98 ÷ 102 %

Code	Size	Packaging	Notes
470556	100 g	Plastic bottle	
470557	1 kg	Plastic bottle	
470552	25 kg	Drum	

## Potassium bitartrate ▶ Potassium L-tartrate monobasic



## Potassium bromate

Potassio bromato • Potassium bromate • Potasio bromato

$KBrO_3$   
Molecular Weight: 167,01  
CAS: 7758-01-2  
EEC-N: 231-829-8

**Classification transport**  
ONU: 1484  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H271-H301-H350-HA26  
P221-P264-P283-P210a-P280a-P301+P310a

### Potassium bromate > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000300	50 g	Plastic bottle	Ref Ph.Eur 2000300

### Potassium bromate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USB

RPE

Description ..... White crystals      Bromide.....Conform ACS      Sulphate.....≤ 50 ppm      Assay (oxidimetric) ..... ≥ 99.8 %  
Identification ..... Positive      Water-insoluble matter .....≤ 50 ppm      Fe .....≤ 20 ppm  
pH sol. 5% at 25° C ..... 5.0 ÷ 9.0      Heavy metals (Pb).....≤ 5 ppm      Na .....≤ 100 ppm

Code	Size	Packaging	Notes
470655	250 g	Plastic bottle	



## Potassium bromate 0.033 mol/l (0.198N)

Potassio bromato 0.033 mol/l (0.198N) • Potassium bromate 0.033 mol/l (0.198N) • Potasio bromato 0.033 mol/l (0.198N)



**Danger**  
H350-HA26  
P280-P201-P202-P308+P313-P405-P501a

### Potassium bromate 0.033 mol/l (0.198N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004200	1 l	Plastic bottle	Ref Ph.Eur 3004200



## Potassium bromate 0.02 mol/l (0.12N)

Potassio bromato 0.02 mol/l (0.12N) • Potassium bromate 0.02 mol/l (0.12N) • Potasio bromato 0.02 mol/l (0.12N)

### Potassium bromate 0.02 mol/l (0.12N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004300	1 l	Plastic bottle	Ref Ph.Eur 3004300



## Potassium bromate 0.0167 mol/l (0.1N)

Potassio bromato 0.0167 mol/l (0.1N) • Potassium bromate 0.0167 mol/l (0.1N) • Potasio bromato 0.0167 mol/l (0.1N)



**Danger**  
H350-HA26  
P280-P201-P202-P308+P313-P405-P501a

### Potassium bromate 0.0167 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid      Identification ..... Positive      Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
470681		Glass ampoule	Volume : 60 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,1 N**

**Potassium bromide**

Potassio bromuro • Potassium bromure • Potasio bromuro

KBr  
Molecular Weight: 119,01  
CAS: 7758-02-3  
EEC-N: 231-830-3

**Warning**

H319  
P264-P280i-P305+P351+P338-P337+P313

**Potassium bromide > RS - For optical spectroscopy****RS**

Description ..... White cryst. powder Identification (I.R.) ..... Conform

Code	Size	Packaging	Notes
470701	100 g	Glass bottle	

**Potassium bromide > RPE - For analysis - ACS****RPE**

Description ..... White crystals  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 5.0 ÷ 8.8  
Water-insoluble matter ..... ≤ 50 ppm

Bromate ..... ≤ 10 ppm  
Chloride ..... ≤ 0.2 %  
Iodate ..... ≤ 10 ppm  
Iodide ..... ≤ 10 ppm

Sulphate ..... ≤ 50 ppm  
Heavy metals (Pb) ..... ≤ 5 ppm  
Ba ..... ≤ 20 ppm  
Ca ..... ≤ 20 ppm

Fe ..... ≤ 5 ppm  
Mg ..... ≤ 10 ppm  
Na ..... ≤ 0.02 %  
Assay (argentimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
470734	100 g	Plastic bottle	
470735	250 g	Plastic bottle	
470737	1 kg	Plastic bottle	
470733	25 kg	Plastic bucket	

**Potassium bromide > ERBApharm - According to pharmacopoeia : BP-DAB-Ph.Eur.-Ph.Franc.****ERBApharm**

Description ..... White crystalline powder  
Identification ..... Positive  
Appearance of solution ..... Conform Ph.Eur.  
Acidity or alkalinity ..... Conform Ph.Eur.

Bromate ..... Conform Ph.Eur.  
Iodide ..... Conform Ph.Eur.  
Loss on drying ..... ≤ 1.0 %  
Chloride ..... ≤ 0.6 %

Heavy metals (Pb) ..... ≤ 10 ppm  
Mg,alkal.earth met.(Ca) ..... ≤ 200 ppm  
Sulphate ..... ≤ 100 ppm  
Fe ..... ≤ 20 ppm

Assay (argentimetric) ..... 98.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
359707	1 kg	Plastic bottle	
359702	5 kg	Plastic jar	

**Potassium carbonate**

Potassio carbonato • Potassium carbonate • Potasio carbonato

$K_2CO_3$   
Molecular Weight: 138,21  
CAS: 584-08-7  
EEC-N: 209-529-3

**Warning**

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

**Potassium carbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description ..... White powder  
Identification ..... Positive  
Water-insoluble matter ..... ≤ 100 ppm  
Chloride ..... ≤ 30 ppm

Phosphate ..... ≤ 10 ppm  
Silicate ..... ≤ 50 ppm  
Total sulphur ..... ≤ 40 ppm  
Heavy metals (Pb) ..... ≤ 5 ppm

Ca ..... ≤ 50 ppm  
Fe ..... ≤ 5 ppm  
Mg ..... ≤ 20 ppm  
Na ..... ≤ 200 ppm

Assay (alkalimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
470805	250 g	Plastic bottle	
470807	1 kg	Plastic bottle	
470801	5 kg	Plastic jar	

**Potassium carbonate > RE - Pure****RE**

Description ..... White crystalline powder  
Identification ..... Positive  
Chloride ..... ≤ 20 ppm

Sulphate ..... ≤ 50 ppm  
Heavy metals (Pb) ..... ≤ 1 ppm  
Fe ..... ≤ 5 ppm

Na ..... ≤ 0.25 %  
Assay (alkalimetric) ..... 99.0 ÷ 100.0 %  
Loss on drying ..... ≤ 0.8 %

KOH ..... ≤ 0.15 %

Code	Size	Packaging	Notes
359808	1 kg	Plastic bottle	
359809	5 kg	Plastic jar	
359803	25 kg	Plastic bucket	



## Potassium chloride

Potassio cloruro • Potassium chlorure • Potasio cloruro

KCl

Molecular Weight: 74,55

CAS: 7447-40-7

EEC-N: 231-211-8

### Potassium chloride > RS - For soils analysis

RS

Assay (argentimetric) ..... ≥ 99.0 %    Water insoluble substances ..... ≤ 0.005 %    Ammonium (NH<sub>4</sub>) ..... ≤ 0.00007 %    Fe ..... ≤ 0.0002 %  
 pH sol. 5% at 25°C ..... 5.4 ÷ 8.6    Sulphate ..... ≤ 0.002 %    Phosphate ..... ≤ 0.001 %    Heavy metals (Pb) ..... ≤ 0.0002 %

Code	Size	Packaging	Notes
471181	5 kg	Plastic jar	

### Potassium chloride > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... White crystals    Water-insoluble matter ..... ≤ 50 ppm    Iodide ..... ≤ 20 ppm    Fe ..... ≤ 3 ppm  
 Identification ..... Positive    Mg and alkaline-earth metals (Ca) ..... ≤ 200 ppm    Sulphate ..... ≤ 10 ppm    Mg ..... ≤ 10 ppm  
 Acidity or alkalinity ..... Conform    ppm    Heavy metals (Pb) ..... ≤ 5 ppm    Na ..... ≤ 50 ppm  
 Appearance of solution ..... Conform    Bromide ..... ≤ 100 ppm    Al ..... ≤ 1 ppm    Assay (argentimetric) ..99.0 ÷ 100.5 % s.s.  
 pH sol. 5% at 25° C ..... 5.4 ÷ 8.6    Nitrate, Chlorate (NO<sub>3</sub>) ..... ≤ 30 ppm    Ba ..... ≤ 10 ppm  
 Loss on drying ..... ≤ 1.0 %    Phosphate ..... ≤ 5 ppm    Ca ..... ≤ 20 ppm

Code	Size	Packaging	Notes
471175	100 g	Plastic bottle	
471176	500 g	Plastic bottle	
471177	1 kg	Plastic bottle	
471171	5 kg	Plastic jar	
471173	25 kg	Plastic bucket	

### Potassium chloride > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... White crystalline powder    Barium ..... Conform Ph.Eur.    Bromide ..... ≤ 0.1 %    Assay (argentimetric) .....99.0 ÷ 100.5 %  
 Identification ..... Positive    Na ..... Conform USP-NF    Heavy metals (Pb) ..... ≤ 10 ppm    Origin (BSE/TSE) ..... Synthesis  
 Appearance of solution ..... Conform Ph.Eur.    Calcium + Magnesium .... Conform USP-NF    Mg,alkal.earth met.(Ca) ..... ≤ 200 ppm    Residual solvents (Current ICH) ..... Conform  
 Acidity or alkalinity ..... Conform Ph.Eur.    Residue solvents ..... Conform USP-NF    Sulphate ..... ≤ 300 ppm  
 Iodide ..... ≤ 50 ppm    Loss on drying ..... ≤ 1.0 %    Fe ..... ≤ 20 ppm

Code	Size	Packaging	Notes
360107	1 kg	Plastic bottle	
360109	5 kg	Plastic jar	
360106	25 kg	Plastic bucket	
360104	50 kg	Fibre drum	



## Potassium chloride 25g/l

Potassio cloruro soluzione 25g/l • Potassium chlorure 25g/l • Potasio cloruro solución 25g/l

KCl

Molecular Weight: 74.55

CAS: 7447-40-7

### Potassium chloride 25g/l in HCl > RS - Ionisation standard solution for AAS

RS

Code	Size	Packaging	Notes
504538	500 ml	Plastic bottle	25 g/l Matrix : Water

**Potassium chloride 12g/l**

Potassio cloruro soluzione 12g/l • Potassium chlorure 12g/l • Potasio cloruro solución 12g/l

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7**Potassium chloride 12g/l > RS - For analysis according to Ph. Eur.Chapter 2.2.25****RS**

Code	Size	Packaging	Notes
506432	10 ml	Sealed cuvette	
506433	100 ml	Glass bottle	

**Potassium chloride 3.5 mol/l (3.5N)**

Potassio cloruro 3.5 mol/l (3.5N) • Potassium chlorure 3.5 mol/l (3.5N) • Potasio cloruro 3.5 mol/l (3.5N)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7**Potassium chloride 3.5 mol/l (3.5N) > RPE - For analysis****RPE**

Code	Size	Packaging	Notes
471225	250 ml	Plastic bottle	

**Content is guaranteed for standardized volumes at 20 °C****Potassium chloride 3.5 mol/l (3.5N) + silver chloride**

Potassio cloruro 3.5 mol/l (3.5N) e argento cloruro • Potassium chlorure 3.5 mol/l (3.5N) avec argent chlorure • Potasio cloruro 3.5 mol/l (3.5N) con plata cloruro

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7**Potassium chloride 3.5 mol/l (3.5N) + silver chloride > RPE - For analysis****RPE**

Code	Size	Packaging	Notes
471245	250 ml	Plastic bottle	

**Content is guaranteed for standardized volumes at 20 °C****Potassium chloride 3 mol/l (3N)**

Potassio cloruro 3 mol/l (3N) • Potassium chlorure 3 mol/l (3N) • Potasio cloruro 3 mol/l (3N)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7**Potassium chloride 3 mol/l (3N) > RPE - For analysis****RPE**

Code	Size	Packaging	Notes
471215	250 ml	Plastic bottle	

**Electrolyte for the reference electrode.****Content is guaranteed for standardized volumes at 20 °C.**a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z



## Potassium chloride 3 mol/l (3N) water-glycerol solution

Potassio cloruro 3 mol/l (3N) soluzione acqua-glicerina • Potassium chlorure 3 mol/l (3N) solution eau/glycérine • Potasio cloruro 3 mol/l (3N) solución agua-glicerina

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 3 mol/l (3N) water-glycerol solution > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Titolo (KCl) ..... 1.485 ÷ 1.515    Density at 20°C ..... 1.190 ÷ 1.210

Code	Size	Packaging	Notes
471275	250 ml	Plastic bottle	

**Content is guaranteed for standardized volumes at 20 °C**



## Potassium chloride 3 mol/l (3N) + silver chloride

Potassio cloruro 3 mol/l (3N) e argento cloruro • Potassium chlorure 3 mol/l (3N) avec argent chlorure • Potasio cloruro 3 mol/l (3N) con plata cloruro

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 3 mol/l (3N) + silver chloride > RPE - For analysis

RPE

Code	Size	Packaging	Notes
471235	250 ml	Plastic bottle	

**Electrolyte for the reference electrode.**

**Content is guaranteed for standardized volumes at 20 °C**



## Potassium chloride 1 mol/l (1N)

Potassio cloruro 1 mol/l (1N) • Potassium chlorure 1 mol/l (1N) • Potasio cloruro 1 mol/l (1N)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 1 mol/l (1N) > RS - For soils analysis

RS

Assay (potentiometry) ..... 0.98 - 1.02 N

Code	Size	Packaging	Notes
PS0772/49	25 l	Plastic tank	
PS0772/79	100 l	Plastic drum	



## Potassium chloride 0.1 mol/l (0.1N)

Potassio cloruro 0.1 mol/l (0.1N) • Potassium chlorure 0.1 mol/l (0.1N) • Potasio cloruro 0.1 mol/l (0.1N)

### Potassium chloride 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069101	1 l	Plastic bottle	Ref Ph.Eur 1069101



## Potassium chloride 0.01 mol/l (0.01N)

Potassio cloruro 0.01 mol/l (0.01N) • Potassium chlorure 0.01 mol/l (0.01N) • Potasio cloruro 0.01 mol/l (0.01N)

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride 0.01 mol/l (0.01N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
471255	1 l	Plastic bottle	Potassium chloride 0.01 M





## Potassium chloride saturated solution

Potassio cloruro soluzione satura • Potassium chlorure solution saturée • Potasio cloruro solución saturada

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride saturated solution > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.169 ÷ 1.173

Code	Size	Packaging	Notes
471265	250 ml	Plastic bottle	

**Electrolytic solution filling**



## Potassium chloride solution

Potassio cloruro soluzione • Potassium chlorure solution • Potasio cloruro solución

KCl  
Molecular Weight: 74,55  
CAS: 7447-40-7

### Potassium chloride solution > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.12 ÷ 1.14 pH at 20° C ..... 6.65 ÷ 6.75

Code	Size	Packaging	Notes
471285	250 ml	Plastic bottle	



## Potassium chromate

Potassio cromato • Potassium chromate • Potasio cromato

K<sub>2</sub>CrO<sub>4</sub>  
Molecular Weight: 194,2  
CAS: 7789-00-6  
EEC-N: 232-140-5

**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H315-H319-H317-H340-H350i-H335-H410-HA26  
P264-P273-P271-P304+P340-P305+P351+P338-P308+P313

### Potassium chromate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellow crystals Water-insoluble matter ..... ≤50 ppm Ca ..... ≤50 ppm  
Identification ..... Positive Chloride ..... ≤50 ppm Na ..... ≤200 ppm  
pH sol. 5% at 25° C ..... 8.6 ÷ 9.8 Sulphate ..... ≤300 ppm Assay (oxidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
471295	250 g	Plastic bottle	
471297	1 kg	Plastic bottle	



## Potassium chromate 5% solution

Potassio cromato soluzione 5% • Potassium chromate solution 5% • Potasio cromato solución 5%

K<sub>2</sub>CrO<sub>4</sub>  
Molecular Weight: 194,2  
CAS: 7789-00-6

**Classification transport**  
ONU: 3287  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H302-H315-H319-H317-H340-H350i-H411-HA26  
P264-P273-P280-P305+P351+P338-P308+P313-P330

### Potassium chromate 5% solution > RS - For agroalimentary analysis

RS

Appearance ..... Conform Assay ..... 4.75 ÷ 5.25 %

Code	Size	Packaging	Notes
502681	1 l	Plastic bottle	

**Composition according to NF V04-314: K<sub>2</sub>CrO<sub>4</sub> 50g water QSP 1 L. Only for the use of professionals users**

### Potassium chromate 5% solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611069201	1 l	Plastic bottle	Ref Ph.Eur 1069201

## Potassium chromium (III)sulfate dodecahydrate ▶ Chromium (III) potassium sulfate dodecahydrate



### Potassium citrate tribasic monohydrate

Potassio citrato tribasico monoidrato • Potassium citrate tribasique monohydraté • Potasio citrato tribásico monohidrato

Synonym:  
Potassium citrate tribasic monohydrate  
Tripotassium citrate

$K_3C_6H_5O_7 \cdot H_2O$   
Molecular Weight: 324,42  
CAS: 6100-05-6  
EEC-N: 212-755-5

#### Potassium citrate tribasic monohydrate > RPE - For analysis

RPE

Description	White crystalline powder	Ammonium	≤10 ppm	Total sulphur	≤50 ppm	Na	≤200 ppm
Identification	Positive	Chloride	≤10 ppm	As	≤0.4 ppm	Ni	≤5 ppm
Reducing substances	Conform	Water-insoluble matter	≤30 ppm	Ca	≤50 ppm	Pb	≤10 ppm
Ready carbonizable substances	Conform	Heavy metals (Pb)	≤20 ppm	Cu	≤5 ppm	Zn	≤2 ppm
pH sol. 5% at 25° C	7.5 ÷ 9.5	Oxalate	≤100 ppm	Fe	≤5 ppm	Assay (non-aqueous medium)	≥99.5 %

Code	Size	Packaging	Notes
471025	250 g	Plastic bottle	
471027	1 kg	Plastic bottle	

#### Potassium citrate tribasic monohydrate > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP-Ph.

ERBapharm

##### Franc.-BP

Description	White crystalline powder	Ready carbonizable substances	Conform Ph.Eur.	Loss on drying	3.0 ÷ 6.0 %	Sulphate	≤150 ppm
Identification	Positive	Tartrate	Conform USP-NF	Chloride	≤50 ppm	Na	≤0.3 %
Appearance of solution	Conform Ph.Eur.	Organic volatile impurities	Conform USP-NF	Heavy metals (Pb)	≤10 ppm	Assay (non-aqueous medium)	.99.0 ÷ 101.0 % s.s.
Acidity or alkalinity	Conform Ph.Eur.	Water (K.F.)	4.0 ÷ 7.0 %	Oxalate	≤300 ppm		

Code	Size	Packaging	Notes
359956	500 g	Plastic bottle	
359957	1 kg	Plastic bottle	
359958	2.5 kg	Plastic jar	
359959	5 kg	Plastic jar	



### Potassium dichromate

Potassio bicromato • Potassium dichromate • Potasio dicromato

$K_2Cr_2O_7$   
Molecular Weight: 294,19  
CAS: 7778-50-9  
EEC-N: 231-906-6

#### Classification transport

ONU: 3086  
Transport Hazard class: 6.1  
Packing group I



#### Danger

H272-H301-H312-H330-H314-H334-H317-H340-H350-H360FD-H372-H410-HA26  
P210-P264-P273-P301+P330+P331-P303+P361+P353-P305+P351+P338-P342+P311a

#### Potassium dichromate > RPE - For analysis

RPE

Description	Orange crystals	Water insoluble substances	≤ 50 ppm	Ca	≤ 20 ppm	Assay (oxydimetric)	≥ 99.8 %
Identification	Positive	Chloride	≤ 20 ppm	Fe	≤ 20 ppm		
Loss on drying at 105°C	≤ 500 ppm	Sulphate	≤ 100 ppm	Na	≤ 500 ppm		

Code	Size	Packaging	Notes
470336	500 g	Plastic bottle	
470337	1 kg	Plastic bottle	



## Potassium dichromate - Sulfuric acid solution

Potassio bicromato - Soluzione di acido solforico • Potassium dichromate - Solution dans l'acide sulfurique • Potasio dicromato - Solución de ácido sulfúrico



HEU203

Molecular Weight: 194.20

CAS: 7789-00-6

### Potassium dichromate - Sulfuric acid solution > RS - For analysis according to Ph. Eur.Chapter 2.2.25

RS

Code	Size	Packaging	Notes
506442	10 ml	Sealed cuvette	conc. 60 mg/l
506452	10 ml	Sealed cuvette	conc. 600 mg/l
506443	100 ml	Glass bottle	conc. 60 mg/l
506453	100 ml	Glass bottle	conc. 600 mg/l



## Potassium dichromate 0.0417 mol/l (0.25N)

Potassio bicromato 0.0417 mol/l (0.25N) • Potassium dichromate 0.0417 mol/l (0.25N) • Potasio dicromato 0.0417 mol/l (0.25N)



Molecular Weight: 294,19

CAS: 7778-50-9

### Classification transport

ONU: 3287

Transport Hazard class: 6.1

Packing group III



### Danger

H332-H315-H319-H334-H317-H340-H350-H360FD-H373-H411-HA26

P264-P273-P271-P304+P340-P305+P351+P338-P342+P311a

### Potassium dichromate 0.0417 mol/l (0.25N) > RS - For environmental analysis (COD determination)

RS

Description .....Orange clear liquid Assay (potentiometry) ..... 0.2495 - 0.2505 N

Code	Size	Packaging	Notes
470451	1 l	Glass bottle	

Content is guaranteed for standardized volumes at 20 °C



## Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO4

Potassio bicromato 0.04 mol/l (0.24N) in 80 g/l HgSO4 • Potassium dichromate 0.04 mol/l (0.24N) dans 80 g/l HgSO4 •

Potasio dicromato 0.04 mol/l (0.24N) en 80 g/l HgSO4



Molecular Weight: 294,18

CAS: 7778-50-9

### Classification transport

ONU: 2922

Transport Hazard class: 8

Packing group II



### Danger

H302-H331-H314-H318-H334-H317-H340-H350-H360FD-H373-H411-HA26

P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Potassium dichromate 0.04 mol/l (0.24N) in 80 g/l HgSO4 > RS - For environmental analysis (COD determination)

RS

Assay .....0,0398 ÷ 0,0402 mol/L

Code	Size	Packaging	Notes
526711	1 l	Glass bottle	
526712	2.5 l	Glass bottle	



## Potassium dichromate 0.0167 mol/l (0.1 N)

Potassio bicromato 0.0167 mol/l (0.1 N) • Potassium dichromate 0.0167 mol/l (0.1 N) • Potasio dicromato 0.0167 mol/l (0.1 N)



Molecular Weight: 294,19

CAS: 7778-50-9



### Danger

H340-H350-H360FD-H412-HEU203-HEU208-HA26  
P273-P280-P201-P202-P308+P313-P405

### Potassium dichromate 0.0167 mol/l (0.1 N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613004600	1 l	Plastic bottle	Ref Ph.Eur 3004600

## Potassium dichromate 0.0167 mol/l (0.1 N) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
P3350016	1 l	Glass bottle	

## Potassium dichromate 0.0167 mol/l (0.1 N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Orange clear liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
470501		Glass ampoule	Volume : 60 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,1 N**


## Potassium dichromate solution 0.5%

Potassio bicromato soluzione 0.5% • Potassium dichromate solution 0.5% • Potasio dicromato solución 0.5%

 $K_2Cr_2O_7$   
 Molecular Weight: 294,19  
 CAS: 7778-50-9

## Potassium dichromate solution 0.5% > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611069509	100 ml	Plastic bottle	Potassium dichromate solution R1 Ref Ph.Eur 1069502
611069502	1 l	Plastic bottle	Potassium dichromate solution R1 Ref Ph.Eur 1069502



## Potassium dichromate solution 106 g/l

Potassio bicromato soluzione 106 g/l • Potassium dichromate solution 106g/l • Potasio dicromato solución 106 g/l

 $K_2Cr_2O_7$   
 Molecular Weight: 294,18  
 CAS: 7778-50-9

**Classification transport**  
 ONU: 1935  
 Transport Hazard class: 6.1  
 Packing group I

**Danger**

 H302-H331-H314-H318-H334-H317-H340-H350-  
 H360FD-H335-H372-H411-HA26  
 P264-P273-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

## Potassium dichromate solution 106 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611069501	1 l	Plastic bottle	Ref Ph.Eur 1069501



## Potassium dichromate 0.2829 g/l

Potassio bicromato 0.2829 g/l • Potassium dichromate 0.2829 g/l • Potasio dicromato 0.2829 g/l

 $K_2Cr_2O_7$   
 Molecular Weight: 294,18  
 CAS: 7778-50-9

HEU203

## Potassium dichromate 0.2829 g/l > RS - For analysis

**RS**

Code	Size	Packaging	Notes
504582	1 l	Plastic bottle	



## Potassium dichromate 0.1414 g/l

Potassio bicromato 0.1414 g/l • Potassium dichromate 0.1414 g/l • Potasio dicromato 0.1414 g/l

 $K_2Cr_2O_7$   
 Molecular Weight: 294,18  
 CAS: 7778-50-9

HEU203

## Potassium dichromate 0.1414 g/l > RS - For analysis

**RS**

Code	Size	Packaging	Notes
504594	1 l	Plastic bottle	

## Potassium dihydrogen phosphate ► Potassium phosphate monobasic

## Potassium disulfate ► Potassium pyrosulphate



### Potassium ferricyanide

Potassio ferricianuro • Potassium ferricyanure • Potasio ferricianuro

Synonym:  
Potassium ferricyanide(III)  
Red prussiate

$K_3Fe(CN)_6$  HEU032  
Molecular Weight: 329,26  
CAS: 13746-66-2  
EEC-N: 237-323-3

#### Potassium ferricyanide > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Red orange crystals    Water-insoluble matter ..... ≤50 ppm    Ferrocyanide ..... ≤500 ppm    Assay (oxidimetric) ..... ≥99.0 %  
Identification ..... Positive    Chloride ..... ≤100 ppm    Sulphate ..... ≤100 ppm

Code	Size	Packaging	Notes
471364	100 g	Plastic bottle	
471365	250 g	Plastic bottle	
471367	1 kg	Plastic bottle	

#### Potassium ferricyanide > RE - Pure

RE

Description ..... Red orange crystals    Chloride ..... ≤0.2 %    Sulphate ..... ≤500 ppm  
Identification ..... Positive    Ferrocyanide ..... ≤0.5 %    Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
360257	1 kg	Plastic bottle	
360258	5 kg	Plastic jar	
360252	25 kg	Plastic bucket	



### Potassium ferricyanide solution 11%

Potassio ferricianuro soluzione 11% • Potassium ferricyanure solution 11% •  
Potasio ferricianuro solución 11%

Synonym:  
Potassium ferricyanide(III)  
Red prussiate

$K_3Fe(CN)_6$  HEU032  
Molecular Weight: 329,26  
CAS: 13746-66-2

#### Potassium ferricyanide solution 11% > RPE - For analysis

RPE

Description ..... Liq. limp giallo verdogn    Identification ..... Positive    Density at 20° C ..... ≥1.06

Code	Size	Packaging	Notes
E471431	1 l	Bottle	



### Potassium ferrocyanide trihydrate

Potassio ferrocianuro triidrato • Potassium ferrocyanure trihydraté • Potasio ferrocianuro trihidrato

Synonym:  
Potassium hexacyanoferrate(II) trihydrate  
Yellow prussiate

$K_4Fe(CN)_6 \cdot 3H_2O$  HEU032  
Molecular Weight: 422,41  
CAS: 14459-95-1

#### Potassium ferrocyanide trihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellow crystals    Chloride ..... ≤100 ppm    Sulphate ..... Conform ACS  
Identification ..... Positive    Water-insoluble matter ..... ≤50 ppm    Assay (oxidimetric) ..... 98.5 ÷ 102.0 %

Code	Size	Packaging	Notes
471484	100 g	Plastic bottle	
471485	250 g	Plastic bottle	
471487	1 kg	Plastic bottle	
471488	2.5 kg	Plastic bottle	
471483	25 kg	Drum	

## Potassium ferrocyanide trihydrate > RE - Pure

**RE**

Description ..... Yellow crystals      Identification ..... Positive      Water-insoluble matter ..... ≤ 0.1 %      Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
360557	1 kg	Plastic bottle	
360558	5 kg	Plastic jar	
360552	25 kg	Plastic bucket	



## Potassium ferrocyanide solution 10%

Potassio ferrocianuro soluzione 10% • Potassium ferrocyanure solution 10% • Potasio ferrocianuro solución 10%

 $K_4Fe(CN)_6 \cdot 3H_2O$   
 Molecular Weight: 422,41  
 CAS: 14459-95-1

## Potassium ferrocyanide solution 10% > RPE - For analysis

**RPE**

Description ..... Yellow clear liquid      Identification ..... Positive      Density at 20° C ..... ≥1.06      Assay (oxidimetric) ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E471501	1 l	Glass bottle	



## Potassium ferrocyanide solution 53 g/l

Potassio ferrocianuro soluzione 53 g/l • Potassium ferrocyanure solution 53 g/l • Potasio ferrocianuro solución 53 g/l

 $K_4Fe(CN)_6 \cdot 3H_2O$   
 Molecular Weight: 422,41  
 CAS: 14459-95-1

## Potassium ferrocyanide solution 53 g/l > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611069801	100 ml	Plastic bottle	Ref Ph.Eur 1069801



## Potassium fluoride

Potassio fluoruro • Potassium fluorure • Potasio fluoruro

 KF  
 Molecular Weight: 58,1  
 CAS: 7789-23-3  
 EEC-N: 232-151-5

**Classification transport**  
 ONU: 1812  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**  
 H301-H311-H331  
 P264-P271-P304+P340-P301+P310a-P312a-P330

## Potassium fluoride > RPE - For analysis

**RPE**

 Description ..... White powder      Water not sol. matter ..... ≤0.01 %      Sulphite ..... ≤100 ppm      Ni ..... ≤20 ppm  
 Identification ..... Positive      Chloride ..... ≤0.05 %      Heavy metals (Pb) ..... ≤20 ppm      Pb ..... ≤20 ppm  
 Acidity (Hydrofluor ac) ..... ≤0.1 %      Fluosilicates ..... ≤0.05 %      Cu ..... ≤20 ppm      Zn ..... ≤20 ppm  
 Alkalinity (KOH) ..... ≤0.1 %      Sulphate ..... ≤100 ppm      Fe ..... ≤10 ppm      Assay (non-aqueous medium) ..... ≥98.0 %

Code	Size	Packaging	Notes
471564	100 g	Plastic bottle	
471561	250 g	Plastic bottle	
471562	1 kg	Plastic bottle	
471563	10 kg	Plastic bucket	



## Potassium fluoride dihydrate

Potassio fluoruro biidrato • Potassium fluorure dihydraté • Potasio fluoruro dihidrato

$KF_2 \cdot 2H_2O$

Molecular Weight: 94,13

CAS: 13455-21-5

EEC-N: 232-151-5

### Classification transport

ONU: 1812

Transport Hazard class: 6.1

Packing group III



### Danger

H301-H311-H331

P264-P271-P304+P340-P301+P310a-P312a-P330

### Potassium fluoride dihydrate > RPE - For analysis

RPE

Description ..... White crystals Identification ..... Positive Assay .....  $\geq 98.5\%$

Code	Size	Packaging	Notes
471555	250 g	Plastic bottle	



## Potassium fluorotitanate

Potassio fluorotitanato • Potassium fluorotitanate • Potasio fluorotitanato

Synonym:

*Dipotassium hexafluorotitanate*

*Titanium potassium hexafluoride*

$K_2TiF_6$

Molecular Weight: 240,09

CAS: 16919-27-0

EEC-N: 240-969-9



### Danger

H301-H335

P264-P271-P304+P340-P301+P310a-P312a-P330

### Potassium fluorotitanate > RPE - For analysis

RPE

Description ..... White crystalline powder Chloride .....  $\leq 200$  ppm Sulphate .....  $\leq 50$  ppm  
 Identification ..... Positive Phosphate .....  $\leq 200$  ppm Fe .....  $\leq 100$  ppm  
 Ammonium .....  $\leq 20$  ppm Heavy metals (Pb) .....  $\leq 50$  ppm Assay (gravimetric) .....  $99 \div 100\%$

Code	Size	Packaging	Notes
471584	100 g	Glass bottle	



## Potassium guaiacolsulfonate

Potassio solfoguaiacolato • Potassium solfogaicolate • Potasio solfoguayacolato

$C_7H_7KO_5S$

Molecular Weight: 242,29

CAS: 1321-14-8

EEC-N: 215-314-5

### Potassium guaiacolsulfonate > RE - Pure

RE

Description ..... White crystalline powder Water (K.F.) .....  $\leq 6.0\%$  Heavy metals (Pb) .....  $\leq 20$  ppm Assay (non-aqueous medium) .....  $\geq 95.5\%$   
 Identification ..... Positive Guaiacol (TLC) .....  $\leq 0.5\%$  Sulphate .....  $\leq 200$  ppm

Code	Size	Packaging	Notes
363807	1 kg	Plastic bottle	



## di-Potassium hexachloroplatinate

di-Potassio esacloroplatinato • Potassium chloroplatinate • Di-Potasio hexacloroplatinato

Synonym:

*Potassium hexachloroplatinate(IV)*

$K_2PtCl_6$

Molecular Weight: 486,01

CAS: 16921-30-5

EEC-N: 240-979-3

### Classification transport

ONU: 3290

Transport Hazard class: 6.1

Packing group II



### Danger

H301-H318-H334-H317

P264-P284-P304+P340-P305+P351+P338-

P342+P311a-P301+P310a

### di-Potassium hexachloroplatinate > RPE - For analysis

RPE

Description ..... Yellow powder Ca .....  $\leq 20$  ppm Mg .....  $\leq 20$  ppm Ru .....  $\leq 20$  ppm  
 Identification ..... Positive Cu .....  $\leq 10$  ppm Pd .....  $\leq 20$  ppm Si .....  $\leq 20$  ppm  
 Ag .....  $\leq 20$  ppm Fe .....  $\leq 20$  ppm Pb .....  $\leq 20$  ppm Assay (gravimetric) .....  $40 \div 40.2\%$  Pt  
 Au .....  $\leq 20$  ppm Ir .....  $\leq 20$  ppm Rh .....  $\leq 20$  ppm

Code	Size	Packaging	Notes
471127	1 g	Glass ampoule	

Potassium hexacyanoferrate(II) trihydrate ▶ Potassium ferrocyanide trihydrate

Potassium hydrogen carbonate ▶ Potassium bicarbonate



## Potassium hydrogen iodate

Potassio iodato acido • Potassium iodate acide • Potasio yodato acido

Synonym:  
Potassium biiodate

$KIO_3 \cdot HIO_3$   
Molecular Weight: 389,92  
CAS: 13455-24-8  
EEC-N: 236-650-9

**Classification transport**  
ONU: 3085  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H314  
P221-P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Potassium hydrogen iodate > RPE - For analysis

**RPE**

Description ..... White crystalline powder    Br-BrO3-Cl-ClO3 (Cl) ..... ≤500 ppm    Fe ..... ≤20 ppm    Assay (oxidimetric) ..... ≥99 %  
Identification ..... Positive    Sulphate ..... ≤100 ppm    Ni ..... ≤20 ppm  
Water-insoluble matter ..... ≤500 ppm    Cu ..... ≤20 ppm    Pb ..... ≤20 ppm

Code	Size	Packaging	Notes
472641	50 g	Glass bottle	

## di-Potassium hydrogen phosphate ► Potassium phosphate dibasic anhydrous

## di-Potassium hydrogen phosphate trihydrate ► Potassium phosphate dibasic trihydrate



## Potassium hydrogen phthalate

Potassio ftalato acido • Potassium phthalate acide • Potasio ftalato acido

Synonym:  
Phthalic acid monopotassium salt  
Potassium biphtalate

$HOOC_6H_4COOK$   
Molecular Weight: 204,23  
CAS: 877-24-7  
EEC-N: 212-889-4

### Potassium hydrogen phthalate > RS - For analysis according to Ph. Eur. Chap. 4.2.1

**RS**

Code	Size	Packaging	Notes
612000400	50 g	Plastic bottle	Ref Ph.Eur 2000400

### Potassium hydrogen phthalate > RS - For volumetry and pHmetry

**RS**

Description ..... White crystals    Identification ..... Positive    pH sol. M/20 at 25° C ..... 4.001 ÷ 4.011    Assay ..... ≥ 99.5 %

Code	Size	Packaging	Notes
471913	25 g	Glass bottle	

### Potassium hydrogen phthalate > RPE - For analysis

**RPE**

Description ..... White crystals    Heavy metals (Pb) ..... ≤5 ppm    Cu ..... ≤5 ppm    Pb ..... ≤5 ppm  
Identification ..... Positive    Total sulphur ..... ≤20 ppm    Fe ..... ≤5 ppm    Zn ..... ≤5 ppm  
Loss on drying (110°C) ..... ≤500 ppm    Ca ..... ≤10 ppm    Mg ..... ≤10 ppm    Assay (acidimetric) ..... ≥99.5 %  
Total nitrogen ..... ≤10 ppm    Cd ..... ≤5 ppm    Mn ..... ≤5 ppm  
Chloride ..... ≤20 ppm    Co ..... ≤5 ppm    Na ..... ≤100 ppm  
Water-insoluble matter ..... ≤30 ppm    Cr ..... ≤10 ppm    Ni ..... ≤5 ppm

Code	Size	Packaging	Notes
471865	250 g	Plastic bottle	
471866	1 kg	Plastic bottle	
471867	2.5 kg	Plastic jar	





## Potassium hydrogen phthalate 0.2 mol/l (0.2N)

Potassio ftalato acido 0.2 mol/l (0.2N) • Potassium phthalate acide 0.2 mol/l (0.2N) • Potasio ftalato acido 0.2 mol/l (0.2N)

Synonym:  
Phthalic acid monopotassium salt  
Potassium biphtalate

HOOC<sub>6</sub>H<sub>4</sub>COOK  
Molecular Weight: 204,23  
CAS: 877-24-7

### Potassium hydrogen phthalate 0.2 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070001	1 l	Plastic bottle	Ref Ph.Eur 1070001



## Potassium hydrogen phthalate 0.1 mol/l (0.1N)

Potassio ftalato acido 0.1 mol/l (0.1N) • Potassium phthalate acide 0.1 mol/l (0.1N) • Potasio ftalato acido 0.1 mol/l (0.1N)

Synonym:  
Phthalic acid monopotassium salt  
Potassium biphtalate

HOOC<sub>6</sub>H<sub>4</sub>COOK  
Molecular Weight: 204,23  
CAS: 877-24-7

**Classification transport**  
ONU: 2789  
Transport Hazard class: 8  
Packing group II



**Danger**  
H226-H314-H318  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

### Potassium hydrogen phthalate 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E471926	500 ml	Bottle	

Ready-to-use solution in acetic anhydride : 0.1N

## Potassium hydrogen sulfate ► Potassium bisulfate



## Potassium hydroxide, flakes

Potassio idrossido, scaglie • Potassium hydroxyde, écailles • Potasio hidróxido, escamas

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3  
EEC-N: 215-181-3

**Classification transport**  
ONU: 1813  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H302-H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Potassium hydroxide, flakes > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.

ERBApharm

Description ..... White flakes Carbonate..... ≤ 2.0 % Heavy metals (Pb)..... ≤ 10 ppm Na..... ≤ 1.0 %  
Identification ..... Positive Chloride..... ≤ 200 ppm Sulphate..... ≤ 200 ppm Assay (total alkalin.)..... 85.0 ÷ 100.5 %  
Appearance of solution ..... Conform Ph.Eur. Phosphate ..... ≤ 100 ppm Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
362201	25 kg	Sack	

### Potassium hydroxide, flakes > RE - Pure

RE

Description ..... White flakes Chloride..... ≤ 80 ppm Na (NaOH)..... ≤ 0.9 % Assay (acidimetric) ..... ≥ 85 %  
Identification ..... Positive Potassio carbonato..... ≤ 1 % Sulphate..... ≤ 20 ppm

Code	Size	Packaging	Notes
362257	1 kg	Plastic bottle	
362258	5 kg	Plastic jar	
362251	25 kg	Sack	



## Potassium hydroxide, pellets

Potassio idrossido, gocce • Potassium hydroxyde, pastilles • Potasio hidróxido, gotas

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3  
EEC-N: 215-181-3

**Classification transport**  
ONU: 1813  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H302-H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Potassium hydroxide, pellets > RS - RSE - For electronic use

RS

Description .....	White pellets	Heavy metals (Pb).....	≤2 ppm	Cu .....	≤0.5 ppm	Ni .....	≤1 ppm
Identification .....	Positive	Silicate .....	≤15 ppm	Fe .....	≤5 ppm	Pb .....	≤1 ppm
Total nitrogen .....	≤3 ppm	Sulphate .....	≤5 ppm	Hg .....	≤0.1 ppm	Zn .....	≤1 ppm
Carbonate.....	≤5000 ppm	As .....	≤0.5 ppm	Mg .....	≤5 ppm	Assay (alkalimetric).....	≥86 %
Chloride.....	≤10 ppm	Ca .....	≤5 ppm	Mn .....	≤0.1 ppm		
Phosphate .....	≤5 ppm	Cd.....	≤0.1 ppm	Na.....	≤300 ppm		

Code	Size	Packaging	Notes
472097	1 kg	Plastic bottle	

### Potassium hydroxide, pellets > RS - For microanalysis

RS

Description .....

Code	Size	Packaging	Notes
472086	500 g	Plastic bottle	

### Potassium hydroxide, pellets > RPE - For analysis - ACS - ISO

RPE

Description .....	White pellets	Carbonate.....	≤ 2.0 %	Heavy metals (Ag) .....	≤ 10 ppm	Assay (alkalimetric).....	≥ 85 %
Identification .....	Positive	Chloride.....	≤ 100 ppm	Fe .....	≤ 10 ppm	Mg .....	≤ 20 ppm
Ca .....	≤ 50 ppm	Phosphate .....	≤ 5 ppm	Na .....	≤ 500 ppm		
Total nitrogen .....	≤ 10 ppm	Sulphate .....	≤ 30 ppm	Ni .....	≤ 10 ppm		

Code	Size	Packaging	Notes
472171	100 g	Plastic bottle	
472172	500 g	Plastic bottle	
472173	1 kg	Plastic bottle	
472175	5 kg	Plastic jar	

#### Low content in sodium

### Potassium hydroxide, pellets > RPE - For analysis

RPE

Description .....	White pellets	Water-insoluble matter .....	≤50 ppm	Al .....	≤10 ppm	Ni .....	≤3 ppm
Identification .....	Positive	Heavy metals (Pb).....	≤5 ppm	As .....	≤1 ppm	Pb .....	≤1 ppm
Total nitrogen .....	≤5 ppm	Subst. ppt by NH4OH.....	≤100 ppm	Ca .....	≤10 ppm	Zn .....	≤5 ppm
Carbonate.....	≤0.6 %	Silicate .....	≤5 ppm	Cu .....	≤5 ppm	Assay (alkalimetric).....	≥85 %
Chloride.....	≤10 ppm	Sulphate .....	≤10 ppm	Fe .....	≤5 ppm		
Phosphate .....	≤4 ppm	Ag .....	≤0.5 ppm	Mg .....	≤5 ppm		

Code	Size	Packaging	Notes
472057	1 kg	Plastic bottle	
472059	5 kg	Plastic jar	
472056	25 kg	Plastic bucket	

### Potassium hydroxide, pellets > ERBapharm - According to pharmacopoeia : FU-Ph.Eur.

ERBapharm

Description .....	White pellets	Na .....	≤1.0 %	Phosphate .....	≤100 ppm	Fe .....	≤10 ppm
Identification .....	Positive	Carbonate.....	≤2.0 %	Heavy metals (Pb).....	≤10 ppm	Titolo (alcalinità totale) .....	85.0 ÷ 100.5 %
Appearance of solution .....	Conform Ph.Eur.	Chloride.....	≤200 ppm	Sulphate .....	≤200 ppm		

Code	Size	Packaging	Notes
362237	1 kg	Plastic bottle	
362239	5 kg	Plastic jar	
362235	25 kg	Sack	



## Potassium hydroxide solution 45%

Potassio idrossido soluzione 45% • Potassium hydroxide solution 45% • Potasio hidróxido solución 45%

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**  
H302-H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Potassium hydroxide solution 45% > RS - RSE - For electronic use

RS

Description	Clear liquid	Ni	≤ 1 ppm	Sulphate	≤ 3 ppm	Cd	≤ 0.05 ppm
Colour (APHA)	≤ 20	Assay (acidimetric)	45.0 ÷ 46.0 %	Silicate	≤ 10 ppm	Mg	≤ 3 ppm
Carbonate	≤ 1.0 %	Subst. ppt by NH4OH	≤ 50 ppm	Heavy metals (Pb)	≤ 3 ppm	Mn	≤ 0.5 ppm
Cr	≤ 1 ppm	Total nitrogen	≤ 0.5 ppm	Al	≤ 1 ppm	Hg	≤ 0.05 ppm
Cu	≤ 0.5 ppm	Chloride	≤ 5 ppm	As	≤ 0.5 ppm	Pb	≤ 1 ppm
Fe	≤ 1 ppm	Phosphate	≤ 3 ppm	Ca	≤ 3 ppm	Zn	≤ 1 ppm

Code	Size	Packaging	Notes
472103	5 l	Plastic bottle	



## Potassium hydroxide solution 38% (40° Bé) in water

Potassio idrossido soluzione 38% (40° Bé) in acqua • Potassium hydroxide 38% (40° Bé) • Potasio hidróxido solución 38% (40° Bé) en agua

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**  
H302-H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Potassium hydroxide solution 38% (40° Bé) in water > RPE - For analysis

RPE

Description	Clear colourless liquid	Nitrogen compounds (N)	≤ 10 ppm	Subst. ppt by NH4OH	≤ 200 ppm	Fe	≤ 5 ppm
Carbonate	≤ 1.5 %	Phosphate	≤ 10 ppm	Silicate	≤ 100 ppm	Assay	38 - 40 %
Chloride	≤ 40 ppm	Heavy metals (Pb)	≤ 20 ppm	Sulphate	≤ 20 ppm		

Code	Size	Packaging	Notes
E472151	1 l	Plastic bottle	
E472152	35 kg	Plastic drum	



## Potassium hydroxide solution 28%

Potassio idrossido soluzione 28% • Potassium hydroxide 28% • Potasio hidróxido solución 28%

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3

**Classification transport**  
ONU: 1814  
Transport Hazard class: 8  
Packing group II



**Danger**  
H302-H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Potassium hydroxide solution 28% > RS - For gas analysis according to Orsat

RS

Description	Clear colourless liquid	Identification	Positive	Density at 20° C	~ 1.27	Assay (alkalimetric)	27 ÷ 29 %
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Code	Size	Packaging	Notes
E472221	1 l	Plastic bottle	



## Potassium hydroxide solution 3% in ethanol

Potassio idrossido soluzione 3% in etanolo • Potassium hydroxide solution 3% dans l'ethanol • Potasio hidróxido solución 3% en etanol

Synonym:  
Caustic potash

KOH  
Molecular Weight: 56,1  
CAS: 1310-58-3

**Classification transport**  
ONU: 2920

### Potassium hydroxide solution 3% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611070303	100 ml	Glass bottle	Ref Ph.Eur 1070303

**Potassium hydroxide 2 mol/l (2N) in ethanol**  
 Potassio idrossido 2 mol/l (2N) in etanolo • Potassium hydroxyde 2 mol/l (2N) dans l'ethanol •  
 Potasio hidróxido 2 mol/l (2N) en etanol

Synonym:  
*Caustic potash*

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 2733 Transport Hazard class: 3 Packing group II	 	<b>Danger</b> H225-H314-H318 P210-P241-P264-P301+P330+P331- P303+P361+P353-P304+P340-P305+P351+P338- P403+P235
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**Potassium hydroxide 2 mol/l (2N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1** **RS**

Code	Size	Packaging	Notes
611070301	100 ml	Plastic bottle	Ref Ph.Eur 1070301

**Potassium hydroxide 1 mol/l (1N)**  
 Potassio idrossido 1 mol/l (1N) • Potassium hydroxyde 1 mol/l (1N) • Potasio hidróxido 1 mol/l (1N)

Synonym:  
*Caustic potash*

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 1814 Transport Hazard class: 8 Packing group II	 	<b>Danger</b> H302-H314-H318 P264-P280-P301+P330+P331-P303+P361+P353- P304+P340-P305+P351+P338
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**Potassium hydroxide 1 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2** **RS**

Code	Size	Packaging	Notes
613009100	1 l	Plastic bottle	Ref Ph.Eur 3009100

**Potassium hydroxide 1 mol/l (1N) > RPE - For analysis** **RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 84 .....

Code	Size	Packaging	Notes
472287000	1 l	Plastic bottle	
472282000	5 l	Kubidos	
472281000	10 l	Kubidos	

**56.11 g of KOH. Volumetric solution ready-to-use : 1N. Traceable to NIST. Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**

**Potassium hydroxide 1 mol/l (1N) > RPE - NORMEX - For analysis** **RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472311		Plastic ampoule	Volume : 165 ml

**56,11 g of KOH. Volumetric concentrated solution to prepare 1 L of solution 1 N**

**Potassium hydroxide 0.5 mol/l (0.5N)**  
 Potassio idrossido 0.5 mol/l (0.5N) • Potassium hydroxyde 0.5 mol/l (0.5N) •  
 Potasio hidróxido 0.5 mol/l (0.5N)

Synonym:  
*Caustic potash*

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 1814 Transport Hazard class: 8 Packing group II	 	<b>Danger</b> H302-H314-H318 P264-P280-P301+P330+P331-P303+P361+P353- P304+P340-P305+P351+P338
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**Potassium hydroxide 0.5 mol/l (0.5N) > RPE - For analysis** **RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 84 .....

Code	Size	Packaging	Notes
472337000	1 l	Plastic bottle	
472332000	5 l	Kubidos	
472331000	10 l	Kubidos	

**28.055 g of KOH. Volumetric solution ready-to-use : 0.5N. Traceable to NIST**

## Potassium hydroxide 0.5 mol/l (0.5N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472391		Plastic ampoule	Volume : 55 ml

**28,055 g of KOH. Volumetric concentrated solution to prepare 1 L of solution 0,5 N**


## Potassium hydroxide 0.5 mol/l (0.5N) in ethanol

Potassio idrossido 0.5 mol/l (0.5N) in alcole etilico • Potassium hydroxyde 0.5 mol/l (0.5N) dans l'éthanol • Potasio hidróxido 0.5 mol/l (0.5N) en metanol

 Synonym:  
Caustic potash

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 2924 Transport Hazard class: 3 Packing group II	 	<b>Danger</b> H225-H314 P210-P241-P264-P301+P330+P331- P303+P361+P353-P304+P340-P305+P351+P338- P403+P235
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## Potassium hydroxide 0.5 mol/l (0.5N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613004900	1 l	Glass bottle	Ref Ph.Eur 3004900

## Potassium hydroxide 0.5 mol/l (0.5N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611070302	1 l	Glass bottle	Ref Ph.Eur 1070302

## Potassium hydroxide 0.5 mol/l (0.5N) in ethanol > RPE - For analysis

**RPE**

Description ..... Colourless to light yellow liquid Assay (potentiometry) ..... 0.499 - 0.501 N NIST 84 .....

Code	Size	Packaging	Notes
472021000	1 l	Plastic bottle	
472022000	1 l	Glass bottle	

**28.055 g of KOH. Volumetric solution ready-to-use : 0.5N. Traceable to NIST**


## Potassium hydroxide 0.5 mol/l (0.5N) in methanol

Potassio idrossido 0.5 mol/l (0.5N) in alcole metilico • Potassium hydroxyde 0.5 mol/l (0.5N) dans le méthanol • Potasio hidróxido 0.5 mol/l (0.5N) en metanol

 Synonym:  
Caustic potash

KOH Molecular Weight: 56,1 CAS: 1310-58-3	<b>Classification transport</b> ONU: 3286 Transport Hazard class: 3 Packing group II	   	<b>Danger</b> H225-H301-H331-H314-H370 P210-P241-P264-P301+P330+P331- P303+P361+P353-P304+P340-P305+P351+P338- P403+P235
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## Potassium hydroxide 0.5 mol/l (0.5N) in methanol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.499 - 0.501 N NIST 84 .....

Code	Size	Packaging	Notes
472366000	500 ml	Glass bottle	
472364000	1 l	Glass bottle	
472367000	5 l	Plastic tank	

**28.055 g of KOH. Volumetric solution ready-to-use : 0.5N. Traceable to NIST**

**Potassium hydroxide 0.46 mol/l (0.46N)** Synonym:  
Caustic potash

Potassio idrossido 0.46 mol/l (0.46N) • Potassium hydroxyde 0.46 mol/l (0.46N) • Potasio hidróxido 0.46 mol/l (0.46N)

<p>KOH Molecular Weight: 56,1 CAS: 1310-58-3</p>	<p><b>Classification transport</b> ONU: 1814 Transport Hazard class: 8 Packing group II</p>		<p><b>Danger</b> H302-H314-H318 P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338</p>
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**Potassium hydroxide 0.46 mol/l (0.46N) > RS - For agroalimentary analysis** **RS**

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Assay ..... 0.455 ÷ 0.465 N

Code	Size	Packaging	Notes
502212	5 l	Plastic tank	

**Potassium hydroxide 0.25 mol/l (0.25N)** Synonym:  
Caustic potash

Potassio idrossido 0.25 mol/l (0.25N) • Potassium hydroxyde 0.25 mol/l (0.25N) • Potasio hidróxido 0.25 mol/l (0.25N)

<p>KOH Molecular Weight: 56,1 CAS: 1310-58-3</p>	<p><b>Classification transport</b> ONU: 1814 Transport Hazard class: 8 Packing group III</p>		<p><b>Warning</b> H315-H319 P280-P264-P305+P351+P338-P362-P332+P313-P337+P313</p>
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**Potassium hydroxide 0.25 mol/l (0.25N) > RPE - For analysis** **RPE**

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.2498 - 0.2503 N    NIST 84.....

Code	Size	Packaging	Notes
472427000	1 l	Plastic bottle	
472422000	5 l	Kubidos	
472421000	10 l	Kubidos	

**14.027 g of KOH. Volumetric solution ready-to-use : 0.25N. Traceable to NIST**

**Potassium hydroxide 0.23 mol/l (0.23N)** Synonym:  
Caustic potash

Potassio idrossido 0.23 mol/l (0.23N) • Potassium hydroxyde 0.23 mol/l (0.23N) • Potasio hidróxido 0.23 mol/l (0.23N)

<p>KOH Molecular Weight: 56,1 CAS: 1310-58-3</p>	<p><b>Classification transport</b> ONU: 1814 Transport Hazard class: 8 Packing group III</p>		<p><b>Warning</b> H315-H319 P280-P264-P305+P351+P338-P362-P332+P313-P337+P313</p>
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**Potassium hydroxide 0.23 mol/l (0.23N) > RS - For agroalimentary analysis** **RS**

Description ..... Clear colourless liquid    Assay ..... 0.225 ÷ 0.235 N    Colour ..... ≤ 10 APHA

Code	Size	Packaging	Notes
502092	5 l	Plastic tank	

**Potassium hydroxide 0.1 mol/l (0.1N)** Synonym:  
Caustic potash

Potassio idrossido 0.1 mol/l (0.1N) • Potassium hydroxyde 0.1 mol/l (0.1N) • Potasio hidróxido 0.1 mol/l (0.1N)

<p>KOH Molecular Weight: 56,1 CAS: 1310-58-3</p>	<p><b>Classification transport</b> ONU: 1814 Transport Hazard class: 8 Packing group III</p>		<p><b>Warning</b> H315-H319 P280-P264-P305+P351+P338-P362-P332+P313-P337+P313</p>
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**Potassium hydroxide 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2** **RS**

Code	Size	Packaging	Notes
613004800	1 l	Plastic bottle	Ref Ph.Eur 3004800

## Potassium hydroxide 0.1 mol/l (0.1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 84 .....

Code	Size	Packaging	Notes
472457000	1 l	Plastic bottle	
472452000	5 l	Kubidos	
472451000	10 l	Kubidos	

**5.611 g of KOH. Volumetric solution ready-to-use : 0.1N. Traceable to NIST**

## Potassium hydroxide 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472511		Plastic ampoule	Volume : 55 ml

**5,611 g KOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**


## Potassium hydroxide 0.1 mol/l (0.1N) in methanol

 Potassio idrossido 0.1 mol/l (0.1N) in alcole metilico • Potassium hydroxide 0.1 mol/l (0.1N) dans le méthanol  
 • Potasio hidróxido 0.1 mol/l (0.1N) en metanol

 Synonym:  
*Caustic potash*

 KOH  
 Molecular Weight: 56,1  
 CAS: 1310-58-3

**Classification transport**  
 ONU: 3286  
 Transport Hazard class: 3  
 Packing group II

**Danger**  
 H225-H301-H311-H331-H370-H315-H319  
 P210-P241-P304+P340-P305+P351+P338-  
 P307+P311-P403+P235-P405-P501a

## Potassium hydroxide 0.1 mol/l (0.1N) in methanol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 84 .....

Code	Size	Packaging	Notes
472486000	500 ml	Glass bottle	
472484000	1 l	Glass bottle	

**5.61 g of KOH. Volumetric solution ready-to-use : 0.1N. Traceable to NIST**


## Potassium hydroxide 0.1 mol/l (0.1N) in ethanol

 Potassio idrossido 0.1 mol/l (0.1N) in alcole etilico • Potassium hydroxide 0.1 mol/l (0.1N) dans l'éthanol •  
 Potasio hidróxido 0.1 mol/l (0.1N) en etanol

 Synonym:  
*Caustic potash*

 KOH  
 Molecular Weight: 56,1  
 CAS: 1310-58-3

**Classification transport**  
 ONU: 2924  
 Transport Hazard class: 3  
 Packing group II

**Danger**  
 H225-H315-H319  
 P210-P241-P303+P361+P353-P305+P351+P338-  
 P403+P235-P501a

## Potassium hydroxide 0.1 mol/l (0.1N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613005100	1 l	Glass bottle	Ref Ph.Eur 3005100

## Potassium hydroxide 0.1 mol/l (0.1N) in ethanol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0998 - 0.1002 N NIST 84 .....

Code	Size	Packaging	Notes
472041000	1 l	Glass bottle	
472042000	1 l	Plastic bottle	

**5.61 g of KOH. Volumetric solution ready-to-use : 0.1N. Traceable to NIST**



## Potassium iodate

Potassio iodato • Potassium iodate • Potasio yodato

$KIO_3$   
Molecular Weight: 214  
CAS: 7758-05-6  
EEC-N: 231-831-9

**Classification transport**  
ONU: 1479  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272  
P221-P210a-P280a-P220-P370+P378a-P501a

### Potassium iodate > RPE - For analysis

**RPE**

Description ..... white crystalline powder    Loss on drying ..... ≤ 0.5 %    As ..... ≤ 3 ppm  
Identification (I.R.) ..... Positive    Iodide ..... Passes test    Ba ..... Passes test  
Acidity or alkalinity ..... Passes test    Heavy metals (Pb) ..... ≤ 10 ppm    Assay (dried base) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
472563	50 g	Glass bottle	
472565	250 g	Glass bottle	



## Potassium iodate 0.05 mol/l

Potassio iodato 0.05 mol/l • Potassium iodate 0.05 mol/l • Potasio yodato 0.05 mol/l

$KIO_3$   
Molecular Weight: 214.00  
CAS: 7758-05-6

### Potassium iodate 0.05 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613005200	1 l	Glass bottle	Ref Ph.Eur 3005200



## Potassium iodate 0.0167 mol/l (0.1N)

Potassio iodato 0.0167 mol/l (0.1N) • Potassium iodate 0.0167 mol/l (0.1N) • Potasio yodato 0.0167 mol/l (0.1N)

$KIO_3$   
Molecular Weight: 214  
CAS: 7758-05-6

### Potassium iodate 0.0167 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472601		Glass ampoule	Volume : 60 ml

**Volumetric concentrated solution to prepare 1 L of solution 0.001 N**



## Potassium iodate 0.00167 mol/l (0.01N)

Potassio iodato 0.00167 mol/l (0.01N) • Potassium iodate 0.00167 mol/l (0.01N) • Potasio yodato 0.00167 mol/l (0.01N)

$KIO_3$   
Molecular Weight: 214  
CAS: 7758-05-6

### Potassium iodate 0.00167 mol/l (0.01N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
472631		Glass ampoule	Volume : 60 ml

**0,3567 g  $KIO_3$ . Volumetric concentrated solution to prepare 1 L of solution 0,01 N**





## Potassium iodide

Potassio ioduro • Potassium iodure • Potasio yoduro

KI  
Molecular Weight: 166,01  
CAS: 7681-11-0  
EEC-N: 231-659-4



**Danger**  
H372  
P264-P260-P270-P314-P501a

### Potassium iodide > RS - For microanalysis

**RS**

Description ..... White cryst. powder Identification ..... Positive

Code	Size	Packaging	Notes
472821	100 g	Glass bottle	

### Potassium iodide > RPE - For analysis - ACS

**RPE**

Description ..... White or colourless solid Water-insoluble matter ..... ≤ 50 ppm Sulphate ..... ≤ 50 ppm Fe ..... ≤ 3 ppm  
 Identification ..... Positive Chloride + bromide (Cl) ..... ≤ 100 ppm Heavy metals (Pb) ..... ≤ 5 ppm Mg ..... ≤ 10 ppm  
 pH sol. 5% at 25° C ..... 6.0 ÷ 9.2 Iodate ..... ≤ 3 ppm Ba ..... ≤ 20 ppm Na ..... ≤ 50 ppm  
 Loss on drying at 150°C ..... ≤ 0.2 % Phosphate ..... ≤ 10 ppm Ca ..... ≤ 20 ppm Assay (oxidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
472735	250 g	Plastic bottle	
472737	1 kg	Plastic bottle	
472736	25 kg	Plastic bucket	

### Potassium iodide > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBapharm**

Description Polvere bianca o quasi, o cristalli incolori Alkalinity ..... Conform Ph.Eur. Loss on drying ..... ≤ 1.0 % Fe ..... ≤ 20 ppm  
 Identification ..... Positive Thiosulphate ..... Conform Ph.Eur. Iodate ..... ≤ 4 ppm Assay (oxidimetric) ..... 99.0 ÷ 100.5 % s.s.  
 Appearance of solution ..... Conform Ph.Eur. Nitrat.nitrit.and NH4OH ..... Conform USP-NF Heavy metals (Pb) ..... ≤ 10 ppm  
 Thiosulfates and barium .. Conform USP-NF Sulphate ..... ≤ 150 ppm

Code	Size	Packaging	Notes
362405	250 g	Plastic bottle	
362407	1 kg	Plastic bottle	
362409	5 kg	Plastic jar	
362403	10 kg	Plastic jar	
362402	25 kg	Plastic bucket	



## Potassium iodide solution 10%

Potassio ioduro soluzione 10% • Potassium iodure solution 10% • Potasio yoduro solución 10%

KI  
Molecular Weight: 166,01  
CAS: 7681-11-0



**Danger**  
H315-H319-H334-H317-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P342+P311a

### Potassium iodide solution 10% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Density at 20° C ..... 1.072 - 1.080 Assay ..... 9.5 ÷ 10.5 % p/p

Code	Size	Packaging	Notes
472831	500 ml	Glass bottle	



## Potassium iodide solution 3.9%

Potassio ioduro soluzione 3.9% • Potassium iodure solution 3.9% • Potasio yoduro solución 3.9%

KI  
Molecular Weight: 166,01  
CAS: 7681-11-0



**Warning**  
H373  
P260-P314-P501a

### Potassium iodide solution 3.9% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay ..... 3.7 - 4.1 % p/v

Code	Size	Packaging	Notes
472815000	250 ml	Glass bottle	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**



## Potassium iodide solution

Potassio ioduro soluzione • Potassium iodure solution • Potasio yoduro solución

KI  
Molecular Weight: 166,01  
CAS: 7681-11-0

**Potassium iodide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611070504	100 ml	Glass bottle	Solution saturated Ref Ph.Eur 1070504
611070505	100 ml	Glass bottle	Solution iodinated R1 Ref Ph.Eur 1070505
611070502	1 l	Plastic bottle	Potassium iodide solution 166 g/l Ref Ph.Eur 1070502

**Storage: protected from light**



## Potassium iodide starch paper

Cartina di amido di potassio • Papier potassium iodure d' amidon • Almidón de yoduro de potasio papel

**Potassium iodide starch paper > RS - For pHmetry**

RS

Code	Size	Packaging	Notes
434980000	1 roll	Box	Paper starch iodide, Color change : White --> Blue-purple



## Potassium iodobismuthate solution

Potassio iodobismutato soluzione • Potassium iodobismuthate solution • Potasio yodobismutato solución



### Danger

H315-H319-H334-H317  
P264-P280-P284-P304+P340-P305+P351+P338-  
P342+P311a

**Potassium iodobismuthate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611070600	100 ml	Glass bottle	Ref Ph.Eur 1070600
611070602	100 ml	Glass bottle	Potassium iodobismuthate solution R2 Ref Ph.Eur 1070602



## Potassium metabisulfite

Potassio metabisolfito • Potassium métabisulfite • Potasio metabisulfito

Synonym:  
*Potassium disulfite*

$K_2S_2O_5$   
Molecular Weight: 222,33  
CAS: 16731-55-8  
EEC-N: 240-795-3



### Warning

H319-H335-HEU031  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P337+P313

**Potassium metabisulfite > ERBApharm - According to pharmacopoeia : NF**

ERBApharm

Description ..... White powder or pieces    Heavy metals (Pb)..... ≤10 ppm    Assay (S02) ..... 51.8 ÷ 57.6 %  
Identification ..... Positive    Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
362627	1 kg	Plastic bottle	
362629	5 kg	Plastic jar	
362622	10 kg	Plastic jar	
362623	25 kg	Plastic bucket	



## Potassium nitrate

Potassio nitrato • Potassium nitrate • Potasio nitrato

$KNO_3$   
Molecular Weight: 101,1  
CAS: 7757-79-1  
EEC-N: 231-818-8

**Classification transport**  
ONU: 1486  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272  
P221-P210a-P280a-P220-P370+P378a-P501a

### Potassium nitrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description ..... White crystalline powder  
Identification ..... Positive  
pH sol. 5% in H<sub>2</sub>O ..... 4.5 ÷ 8.5  
Water-insoluble matter ..... ≤50 ppm

Chloride ..... ≤20 ppm  
Phosphate ..... ≤5 ppm  
Iodate ..... ≤5 ppm  
Nitrite ..... ≤10 ppm

Sulphate ..... ≤30 ppm  
Heavy metals (Pb) ..... ≤5 ppm  
Ca ..... ≤50 ppm  
Fe ..... ≤3 ppm

Mg ..... ≤20 ppm  
Na ..... ≤50 ppm  
Assay (acidimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
473006	100 g	Plastic bottle	
473007	1 kg	Plastic bottle	
473009	5 kg	Plastic jar	
473001	25 kg	Drum	

### Potassium nitrate > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.

**ERBApharm**

Description ..... White crystalline powder  
Identification ..... Positive  
Appearance of solution ..... Conform Ph.Eur.  
Acidity or alkalinity ..... Conform Ph.Eur.

Reducing substances ..... Conform Ph.Eur.  
Ammonium ..... ≤ 100 ppm  
Heavy metals (Pb) ..... ≤ 10 ppm  
Sulphate ..... ≤ 150 ppm

Ca ..... ≤ 100 ppm  
Fe ..... ≤ 20 ppm  
Na ..... ≤ 0.10 %  
Loss on drying ..... ≤ 0.5 %

Assay (acidimetric) ..... 99.0 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
363007	1 kg	Plastic bottle	
363009	5 kg	Plastic jar	
363002	25 kg	Plastic bucket	



## Potassium nitrate 1 mol/l (1N)

Potassio nitrato 1 mol/l (1N) • Potassium nitrate 1 mol/l (1N) • Potasio nitrato 1 mol/l (1N)

$KNO_3$   
Molecular Weight: 101,1  
CAS: 7757-79-1

### Potassium nitrate 1 mol/l (1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid  
Identification ..... Positive  
Density at 20°C ..... 1.057 ÷ 1.061

Code	Size	Packaging	Notes
473045	250 ml	Plastic bottle	



## Potassium nitrite

Potassio nitrito • Potassium nitrite • Potasio nitrito

$KNO_2$   
Molecular Weight: 85,1  
CAS: 7758-09-0  
EEC-N: 231-832-4

**Classification transport**  
ONU: 1488  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H301-H400  
P221-P264-P273-P210a-P280a-P301+P310a

### Potassium nitrite > RPE - For analysis

**RPE**



Description ..... Yellowish crystals  
Identification ..... Positive

Chloride ..... ≤ 100 ppm  
Sulphate ..... ≤ 200 ppm

As ..... ≤ 1 ppm  
Fe ..... ≤ 10 ppm

Pb ..... ≤ 5 ppm  
Assay ..... ≥ 97 %

Code	Size	Packaging	Notes
473084	100 g	Glass bottle	



	<b>Potassium oxalate monohydrate</b>		Synonym: Ethanedioic acid Oxalic acid potassium salt	
	Potassio ossalato monoidrato • Potassium oxalate monohydraté • Potasio oxalato monohidrato			
(COOK) <sub>2</sub> ·H <sub>2</sub> O Molecular Weight: 184,23 CAS: 6487-48-5 EEC-N: 209-506-8				<b>Warning</b> H302-H312 P264-P280h-P270-P330-P301+P312a-P302+P352a

### Potassium oxalate monohydrate > RPE - For analysis - ACS

**RPE**

Description .....	White crystalline powder	Ready carbonizable substances.....	Conform	Chloride.....	≤20 ppm	Fe .....	≤10 ppm
Identification .....	Positive	Water-insoluble matter .....	≤100 ppm	Sulphate .....	≤100 ppm	Na.....	≤200 ppm
Neutrality .....	Conform	Ammonium .....	≤20 ppm	Heavy metals (Pb).....	≤20 ppm	Assay (oxidimetric) .....	98.5 ÷ 101.0 %

Code	Size	Packaging	Notes
473135	250 g	Plastic bottle	
473137	1 kg	Plastic bottle	
473133	25 kg	Plastic bucket	

	<b>Potassium periodate</b>		Synonym: Periodic acid potassium salt Potassium(meta)periodate	
	Potassio (meta)-periodato • Potassium m-périodate • Potasio (meta)-periyodato			
KIO <sub>4</sub> Molecular Weight: 230 CAS: 7790-21-8 EEC-N: 232-196-0	<b>Classification transport</b> ONU: 1479 Transport Hazard class: 5.1 Packing group II			<b>Danger</b> H272 P221-P210a-P280a-P220-P370+P378a-P501a

### Potassium periodate > RPE - For analysis - Reag. Ph.Eur.

**RPE**

Description .....	White crystalline powder	Identification .....	Positive	Mn .....	≤ 1 ppm	Assay (iodometric) .....	≥ 99.5 %
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Code	Size	Packaging	Notes
473332	25 g	Glass bottle	
473334	100 g	Glass bottle	

	<b>Potassium permanganate</b>		Synonym: Potassium permanganate	
	Potassio permanganato • Potassium permanganate • Potasio permanganato			
KMnO <sub>4</sub> Molecular Weight: 158,04 CAS: 7722-64-7 EEC-N: 231-760-3	<b>Classification transport</b> ONU: 1490 Transport Hazard class: 5.1 Packing group II		  	<b>Danger</b> H272-H302-H410 P221-P264-P273-P210a-P280a-P330

### Potassium permanganate > RS - For enviromental analysis - ACS

**RS**

Description .....	Dark violet crystals	Chloride & Chlorate(Cl) .....	≤ 50 ppm	Sulphate.....	≤ 200 ppm	Assay (oxidimetric) .....	≥ 99.0 %
Identification .....	Positive	Water-insoluble matter .....	≤ 0.2 %	Hg .....	≤ 0.05 ppm		

Code	Size	Packaging	Notes
476671	100 g	Glass bottle	

Low content in Hg

### Potassium permanganate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Dark violet crystals	Chloride & Chlorate(Cl) .....	≤ 50 ppm	Sulphate.....	≤ 200 ppm	Appearance of solution.....	Conform Ph.Eur.
Identification .....	Positive	Water-insoluble matter .....	≤ 0.2 %	Assay (oxidimetric) .....	99.0 ÷ 100.5 %		

Code	Size	Packaging	Notes
473384	100 g	Plastic bottle	
473385	250 g	Plastic bottle	
473387	1 kg	Plastic bottle	
473381	25 kg	Metal drum	

## Potassium permanganate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB ERBApharm

Description ..... Dark-violet crystals      Appearance of solution ..... Conform Ph.Eur.      Water not sol. matter ..... ≤ 0.2 %      Sulphate ..... ≤ 500 ppm  
 Identification ..... Positive      Loss on drying ..... ≤ 0.5 %      Chloride ..... ≤ 200 ppm      Assay (oxidimetric) ..... 99.0 ÷ 100.5 %

Code	Size	Packaging	Notes
363107	1 kg	Plastic bottle	
363109	5 kg	Plastic jar	
363101	25 kg	Metal drum	



### Potassium permanganate 0.2 mol/l (1N)

Potassio permanganato 0.2 mol/l (1N) • Potassium permanganate 0.2 mol/l (1N) • Potasio permanganato 0.2 mol/l (1N)

KMnO <sub>4</sub> Molecular Weight: 158,04 CAS: 7722-64-7	<b>Classification transport</b> ONU: 3082 Transport Hazard class: 9 Packing group III		H411 P273-P391-P501a
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### Potassium permanganate 0.2 mol/l (1N) > RPE - For analysis

**RPE**

Description ..... Clear purple liquid      Assay (potentiometry) ..... 0.99 - 1.01 N      NIST 136 ..... e

Code	Size	Packaging	Notes
473514000	1 l	Glass bottle	

**3.1606 g of KMnO<sub>4</sub>. Volumetric solution ready-to-use : 0.1N. Traceable to NIST**



### Potassium permanganate 0.02 mol/l (0.1N)

Potassio permanganato 0.02 mol/l (0.1N) • Potassium permanganate 0.02 mol/l (0.1N) • Potasio permanganato 0.02 mol/l (0.1N)

KMnO <sub>4</sub> Molecular Weight: 158,04 CAS: 7722-64-7			
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### Potassium permanganate 0.02 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613005301	100 ml	Glass bottle	Ref Ph.Eur 3005300
613005309	250 ml	Glass bottle	Ref Ph.Eur 3005300
613005300	1 l	Glass bottle	Ref Ph.Eur 3005300

### Potassium permanganate 0.02 mol/l (0.1N) > RPE - For analysis

**RPE**

Description ..... Purple clear liquid      Assay (potentiometry) ..... 0.0998 - 0.1002 N      NIST 136 ..... e

Code	Size	Packaging	Notes
473567000	1 l	Glass bottle	
473565000	5 l	Kubidos	

**3.1606 g of KMnO<sub>4</sub>. Volumetric solution ready-to-use : 0.1N. Traceable to NIST**

### Potassium permanganate 0.02 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear purple liquid      Identification ..... Positive      Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
473591		Glass ampoule	Volume : 65 ml

**3,161 g KMnO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**

**Potassium permanganate 0.002 mol/l (0.01N)**  
 Potassio permanganato 0.002 mol/l (0.01N) • Potassium permanganate 0.002 mol/l (0.01N) • Potasio permanganato 0.002 mol/l (0.01N)

KMnO <sub>4</sub>	H412
Molecular Weight: 158,04	P273-P501a
CAS: 7722-64-7	


**Potassium permanganate 0.002 mol/l (0.01N) > RPE - NORMEX - For analysis** **RPE**

Description ..... Clear purple liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
473661		Glass ampoule	Volume : 60 ml

**0,3161 g KMnO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**

**Potassium permanganate solution 3%**  
 Potassio permanganato soluzione 3% • Potassium permanganate solution 3% • Potasio permanganato solución 3%

KMnO <sub>4</sub>	<b>Classification transport</b>		H411
Molecular Weight: 158,04	ONU: 3082		P273-P391-P501a
CAS: 7722-64-7	Transport Hazard class: 9		
	Packing group III		

**Potassium permanganate solution 3% > RS - For analysis according to Ph. Eur. Chap. 4.1.1** **RS**

Code	Size	Packaging	Notes
611070902	1 l	Glass bottle	Ref Ph.Eur 1070902

**Potassium permanganate and phosphoric acid solution**  
 Potassio permanganato e acido fosforico soluzione • Potassium permanganate - Solution phosphorique • Potasio permanganato y ácido fosfórico solución

KMnO <sub>4</sub>	
Molecular Weight: 158,04	
CAS: 7722-64-7	

**Potassium permanganate and phosphoric acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1** **RS**

Code	Size	Packaging	Notes
611070901	100 ml	Glass bottle	Ref Ph.Eur 1070901

**Potassium persulfate**  
 Potassio persolfato • Potassium persulfate • Potasio persulfato

Synonym:  
*Potassium peroxodisulfate*

K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	<b>Classification transport</b>			<b>Danger</b>
Molecular Weight: 270,31	ONU: 1492			H272-H302-H315-H319-H334-H317-H335
CAS: 7727-21-1	Transport Hazard class: 5.1			P221-P264-P210a-P304+P340-P305+P351+P338-
EEC-N: 231-781-8	Packing group III			P342+P311a

**Potassium persulfate > RE - Pure** **RE**

Description ..... White crystalline powder    Acidity(Sulphuric acid) ..... ≤ 0.15 %    Assay (oxidimetric) ..... ≥ 99 %  
 Identification ..... Positive    Fe ..... ≤ 5 ppm

Code	Size	Packaging	Notes
473701	1 kg	Plastic bottle	



## Potassium phosphate dibasic anhydrous

Potassio fosfato bibasico anidro • Potassium phosphate dibasique anhydre • Potasio fosfato dibásico anhidro

Synonym:

*Dipotassium hydrogenphosphate*



Molecular Weight: 174,18

CAS: 7758-11-4

EEC-N: 231-834-5

### Potassium phosphate dibasic anhydrous > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....	White crystalline powder	Loss on drying (105°C).....	≤1.0 %	Chloride.....	≤30 ppm	Fe .....	≤10 ppm
Identification .....	Positive	Water-insoluble matter .....	≤100 ppm	Sulphate .....	≤50 ppm	Na.....	≤500 ppm
pH sol. 5% in H <sub>2</sub> O.....	8.5 ÷ 9.6	Total nitrogen .....	≤10 ppm	Heavy metals (Pb).....	≤5 ppm	Assay (potentiometric) .....	≥98.0 %

Code	Size	Packaging	Notes
471785	100 g	Plastic bottle	
471786	500 g	Plastic bottle	
471787	1 kg	Plastic bottle	
471782	5 kg	Plastic jar	
471781	25 kg	Plastic drum	
471788	25 kg	Plastic bucket	

### Potassium phosphate dibasic anhydrous > RE - Pure

RE

Description .....	White powder	Chloride.....	≤100 ppm	Sulphate .....	≤200 ppm	Fe .....	≤50 ppm
Identification .....	Positive	Heavy metals (Pb).....	≤30 ppm	As .....	≤20 ppm	Assay (acidimetric) .....	≥98 %

Code	Size	Packaging	Notes
361757	1 kg	Plastic bottle	
361752	5 kg	Plastic jar	
361751	25 kg	Plastic bucket	



## Potassium phosphate dibasic trihydrate

Potassio fosfato bibasico triidrato • Potassium phosphate dibasique trihydraté • Potasio fosfato dibásico trihidrato

Synonym:

*Dipotassium hydrogen phosphate trihydrate*



Molecular Weight: 228,23

CAS: 16788-57-1

EEC-N: 231-834-5

### Potassium phosphate dibasic trihydrate > RPE - For analysis

RPE

Description .....	White crystals	Total nitrogen .....	≤50 ppm	Cu .....	≤30 ppm	Pb .....	≤30 ppm
Identification .....	Positive	Chloride.....	≤50 ppm	Fe .....	≤30 ppm		
pH sol. 5% in H <sub>2</sub> O.....	8.5 ÷ 9.6	Sulphate .....	≤100 ppm	Assay (non-aqueous medium).....	≥ 99.0 %		
Water-insoluble matter .....	≤100 ppm	As .....	≤1 ppm	Ni.....	≤30 ppm		

Code	Size	Packaging	Notes
471764	100 g	Plastic bottle	
471766	500 g	Plastic bottle	
471767	1 kg	Plastic bottle	
471761	25 kg	Fibre drum	



## Potassium phosphate monobasic

Potassio fosfato monobásico • Potassium phosphate monobásique • Potasio fosfato monobásico

Synonym:  
Monopotassium phosphate  
Potassium dihydrogen phosphate

$\text{KH}_2\text{PO}_4$   
Molecular Weight: 136,09  
CAS: 7778-77-0  
EEC-N: 231-913-4

### Potassium phosphate monobasic > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description .....	White crystals	Water-insoluble matter .....	≤100 ppm	Heavy metals (Pb).....	≤10 ppm	Appearance of solution .....	Clear colourless liquid Ph. Eur.
Identification .....	Positive	Total nitrogen .....	≤10 ppm	Fe .....	≤10 ppm	Reducing substances .....	Pass test Ph.Eur.
pH sol. 5% in H <sub>2</sub> O.....	4.1 ÷ 4.5	Chloride .....	≤10 ppm	Na .....	≤50 ppm	As .....	≤ 2 ppm
Loss on drying (105°C).....	≤0.2 %	Sulphate .....	≤30 ppm	Assay (potentiometric) 99.0 ÷ 100.5 (s-s) %		Loss on drying 130°C.....	≤ 2.0 %

Code	Size	Packaging	Notes
471685	100 g	Plastic bottle	
471686	500 g	Plastic bottle	
471687	1 kg	Plastic bottle	
471682	5 kg	Plastic jar	
471681	25 kg	Drum	

### Potassium phosphate monobasic > ERBApharm - According to pharmacopoeia : NF

**ERBApharm**

Description .....	White crystalline powder	Loss on drying .....	≤1.0 %	Not soluble matter.....	≤0.2 %	Assay .....	98.0 ÷ 100.5 % s.s.
Identification .....	Positive	Fluoride .....	≤10 ppm	As .....	≤3 ppm	Origin (BSE/TSE).....	Synthesis
Organic volatile impurities	Conform USP-NF	Heavy metals (Pb).....	≤20 ppm	Pb .....	≤5 ppm	Residual solvents (Current ICH).....	Conform

Code	Size	Packaging	Notes
361507	1 kg	Plastic bottle	
361509	5 kg	Plastic jar	
361503	25 kg	Plastic bucket	



## Potassium phosphate monobasic 0.2 mol/l (0.2N)

Potassio fosfato monobásico 0.2 mol/l (0.2N) • Potassium phosphate monobásique 0.2 mol/l (0.2N) • Potasio fosfato monobásico 0.2 mol/l (0.2N)

Synonym:  
Monopotassium phosphate  
Potassium dihydrogen phosphate

$\text{KH}_2\text{PO}_4$   
Molecular Weight: 136,09  
CAS: 7778-77-0

### Potassium phosphate monobasic 0.2 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611069601	1 l	Plastic bottle	Ref Ph.Eur 1069601



## Potassium pyroantimonate acid

Potassio piroantimoniato acido • Potassium pyroantimonate acide • Potasio piroantimoniato acido

Synonym:  
Potassium hexahydroxoantimonate(V)  
Potassium antimonate, hydrated

$\text{KSb}(\text{OH})_6$   
Molecular Weight: 262,9  
CAS: 12208-13-8  
EEC-N: 235-387-7

**Classification transport**  
ONU: 1549  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H302-H332-H411  
P264-P273-P271-P261-P304+P340-P330

### Potassium pyroantimonate acid > RPE - For analysis

**RPE**

Description .....	White powder	Water-insoluble matter .....	≤ 100 ppm	Assay (oxidimetric) .....	≥ 94 %
Identification .....	Positive	Sodium sensitivity.....	~ 2.5 µg/ml		

Code	Size	Packaging	Notes
473835	250 g	Plastic bottle	





## Potassium pyroantimonate solution

Potassio piroantimoniato soluzione • Potassium pyroantimoine solution • Potasio piroantimoniato solución

Synonym:  
Potassium hexahydroxoantimonate(V)  
Potassium antimonate, hydrated

$\text{KSb(OH)}_6$   
Molecular Weight: 262,9  
CAS: 12208-13-8

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II

### Potassium pyroantimonate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611071303	100 ml	Plastic bottle	Ref Ph.Eur 1071300
611071309	250 ml	Plastic bottle	Ref Ph.Eur 1071300
611071302	1 l	Plastic bottle	Ref Ph.Eur 1071300



## Potassium pyrogallate solution 14%

Potassio pirogallato soluzione 14% • Potassium pyrogallate solution 14% • Potasio pirogalato solución 14%

**Classification transport**  
ONU: 3266  
Transport Hazard class: 8  
Packing group II



### Danger

H302-H314-H318-H341

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Potassium pyrogallate solution 14% > RS - For gas analysis according to Orsat

RS

Description ..... Liquido bruno Identification ..... Positive Density at 20° C ..... 1.53 ÷ 1.55

Code	Size	Packaging	Notes
E473961	250 ml	Glass bottle	
E473962	1 l	Glass bottle	



## tetra-Potassium pyrophosphate

Potassio pirofosfato • Potassium pyrophosphate • Potasio pirofosfato

$\text{K}_4\text{P}_2\text{O}_7$   
Molecular Weight: 330,35  
CAS: 7320-34-5  
EEC-N: 230-785-7

### tetra-Potassium pyrophosphate > RPE - For analysis

RPE

Description ..... White powder Fluoride ..... ≤ 5 ppm As ..... ≤ 1 ppm Assay (acidimetric) ..... ≥ 95.0 %  
Identification ..... Positive Heavy metals (Pb) ..... ≤ 20 ppm Fe ..... ≤ 30 ppm  
Water-insoluble matter ..... ≤ 0.1 % pH sol. 1% at 25° C ..... 10.0 ÷ 10.5 Pb ..... ≤ 1 ppm

Code	Size	Packaging	Notes
473915	250 g	Plastic bottle	



## Potassium pyrosulphate

Potassio pirosofato • Potassium pyrosulfate • Potasio pirosofato

Synonym:  
Potassium disulfate

$\text{K}_2\text{O}_7\text{S}_2$   
Molecular Weight: 254,33  
CAS: 7790-62-7  
EEC-N: 232-216-8

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group II



### Danger

H314

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Potassium pyrosulphate > RPE - For analysis - ACS

RPE

Description ..... White granules Chloride ..... ≤ 20 ppm Fe ..... ≤ 20 ppm Ca ..... ≤ 20 ppm  
Identification ..... Positive Phosphate ..... ≤ 10 ppm Na ..... ≤ 100 ppm Mg ..... ≤ 10 ppm  
Water (K.F.) ..... ≤ 2.5 % Heavy metals (Pb) ..... ≤ 10 ppm Assay (acidimetric) .37.5 ÷ 38.6 % (H<sub>2</sub>SO<sub>4</sub>) Water-insoluble matter ..... ≤ 100 ppm

Code	Size	Packaging	Notes
474016	100 g	Plastic bottle	
474017	1 kg	Plastic bottle	



## Potassium sodium tartrate tetrahydrate

Potassio sodio tartrato tetraidrato • Potassium sodium tartrate tétrahydraté • Potasio y sodio tartrato tetrahidratado

Synonym:  
Rochelle salt

$C_4H_4O_6KNa \cdot 4H_2O$   
Molecular Weight: 282,23  
CAS: 6381-59-5  
EEC-N: 205-698-2

### Potassium sodium tartrate tetrahydrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description . White semitransparent crystals  
Identification ..... Positive  
pH sol. 5% at 25° C ..... 6.0 ÷ 8.5

Ammonium ..... ≤20 ppm  
Chloride ..... ≤10 ppm  
Phosphate ..... ≤20 ppm

Water-insoluble matter ..... ≤50 ppm  
Heavy metals (Pb) ..... ≤5 ppm  
Sulphate ..... ≤50 ppm

Ca ..... ≤50 ppm  
Fe ..... ≤10 ppm  
Assay (non-aqueous medium) .99.0 ÷ 102.0 %

Code	Size	Packaging	Notes
474115	100 g	Plastic bottle	
474116	500 g	Plastic bottle	
474117	1 kg	Plastic bottle	
474119	5 kg	Plastic jar	
474112	25 kg	Plastic bucket	
474114	50 kg	Plastic bucket	

### Potassium sodium tartrate tetrahydrate > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description ..... White crystalline powder  
Identification ..... Positive

Alcalinity ..... Conform USP-NF  
Ammonia ..... Conform USP-NF

Water (K.F.) ..... 21.0 ÷ 27.0 %  
Heavy metals (Pb) ..... ≤10 ppm

Assay (alkalimetric) ..... 99.0 ÷ 102.0 % s.s.

Code	Size	Packaging	Notes
363457	1 kg	Plastic bottle	
363459	5 kg	Plastic jar	
363454	50 kg	Plastic bucket	



## Potassium sorbate

Potassio sorbato • Potassium sorbate • Potasio sorbato

Synonym:  
Potassium 2,4-hexadienoate  
Sorbic acid potassium salt

$CH_3(CH:CH)_2COOK$   
Molecular Weight: 150,22  
CAS: 24634-61-5  
EEC-N: 246-376-1



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Potassium sorbate > RE - Pure

RE

Description ..... Ivory powder  
Identification ..... Positive  
M.p. extr. Sorbic acid ..... 133 ÷ 135 ° C

Loss on drying in vacuo ..... ≤1 %  
Aldehydes(Formaldehyde) ..... ≤0.1 %  
Cu + Zn ..... ≤50 ppm

As ..... ≤3 ppm  
Pb ..... ≤10 ppm  
Zn ..... ≤25 ppm

Assay (non-aqueous medium) ..... ≥99 % s.s.

Code	Size	Packaging	Notes
363884	1 kg	Plastic bottle	



## Potassium sulfate

Potassio solfato • Potassium sulfate • Potasio sulfato

$K_2SO_4$   
Molecular Weight: 174,27  
CAS: 7778-80-5  
EEC-N: 231-915-5

### Potassium sulfate > RS - For microanalysis

RS

Description ..... White crystals  
Identification ..... Positive

Code	Size	Packaging	Notes
474205	250 g	Plastic bottle	

## Potassium sulfate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description .....	White crystals	Total nitrogen .....	≤5 ppm	Heavy metals (Pb).....	≤5 ppm	Assay (acidimetric) .....	≥99.0 %
Identification .....	Positive	Chloride .....	≤10 ppm	Fe .....	≤5 ppm	Ca .....	≤100 ppm
pH sol. 5% in H <sub>2</sub> O .....	5.5 ÷ 8.5	Water-insoluble matter .....	≤100 ppm	Na .....	≤200 ppm	Mg .....	≤50 ppm

Code	Size	Packaging	Notes
474166	100 g	Plastic bottle	
474167	1 kg	Plastic bottle	
474169	5 kg	Plastic jar	

## Potassium sulfate > RE - Pure

**RE**

Description .....	White crystalline powder	Loss on ignition .....	≤1 %	Assay (gravimetric) .....	≥99 %	Mg .....	≤300 ppm
Identification .....	Positive	Chloride .....	≤40 ppm	Na .....	≤300 ppm		

Code	Size	Packaging	Notes
363607	1 kg	Plastic bottle	
363608	5 kg	Plastic jar	
363602	25 kg	Plastic bucket	



## Potassium tartrate

Potassio tartrato • Potassium tartrate • Potasio tartrato

C4H4K2O6 · 1/2H2O  
 Molecular Weight: 235,28  
 CAS: 6100-19-2

## Potassium tartrate > RPE - For analysis

**RPE**

Description .....	White crystals	Phosphate .....	≤5 ppm	Ca .....	≤50 ppm	Pb .....	≤2 ppm
Identification .....	Positive	Water-insoluble matter .....	≤50 ppm	Cu .....	≤2 ppm	Zn .....	≤2 ppm
pH sol. 5% at 25° C .....	7.0 ÷ 9.0	Heavy metals (Pb).....	≤5 ppm	Fe .....	≤5 ppm	Assay (non-aqueous medium) .....	≥99 %
Ammonium .....	≤10 ppm	Sulphate .....	≤50 ppm	Na .....	≤200 ppm		
Chloride .....	≤10 ppm	As .....	≤0.4 ppm	Ni .....	≤2 ppm		

Code	Size	Packaging	Notes
474465	250 g	Plastic bottle	
474467	1 kg	Plastic bottle	



## Potassium L-tartrate monobasic

Potassio tartrato acido • Potassium L-tartrate monobasique • Potasio tartrato acido

 Synonym:  
*Potassium bitartrate*

COOK(CHOH)2COOH  
 Molecular Weight: 188,18  
 CAS: 868-14-4  
 EEC-N: 212-769-1

## Potassium L-tartrate monobasic > RPE - For analysis

**RPE**

Description .....	White crystalline powder	Pot. rotat. spec. a 20°C (c=10; NaOH 1N).....	+32 ÷ +33 °	Sulphate .....	≤100 ppm
Identification .....	Positive	Chloride .....	≤200 ppm	As .....	≤1 ppm
Loss on drying .....	≤0.2 %	Heavy metals (Pb).....	≤10 ppm	Assay (non-aqueous medium) .....	≥98.5 %

Code	Size	Packaging	Notes
474515	250 g	Plastic bottle	
474517	1 kg	Plastic bottle	

## Potassium L-tartrate monobasic > RE - Pure

**RE**

Description .....	White crystalline powder	Ac. tartarico libero .....	≤0.2 %	As .....	≤1 ppm
Identification .....	Positive	Chloride .....	≤350 ppm	Pb .....	≤10 ppm
Loss on drying .....	≤0.5 %	Sulphate .....	≤0.12 %	Assay (acidimetric) .....	≥99.5 % s.s.

Code	Size	Packaging	Notes
363907	1 kg	Plastic bottle	



## Potassium tellurite

Potassio tellurito • Potassium tellurite • Potasio telurito

$K_2TeO_3 \cdot nH_2O$   
Molecular Weight: 253,8  
CAS: 7790-58-1  
EEC-N: 232-213-1



### Danger

H301  
P264-P270-P301+P310a-P330-P321-P405

### Potassium tellurite > RE - Pure

RE

Description ..... Yellowish crystals Identification ..... Positive Assay (oxidimetric) ..... >95 %

Code	Size	Packaging	Notes
474652	25 g	Glass bottle	



## Potassium tetraiodomercurate solution, alkaline

Potassio tetraiodomercurato soluzione alcalina • Potassium tétraiodomercurate - Solution alcaline • Potasio tetraiodomercurato solución alcalina

### Classification transport

ONU: 3289  
Transport Hazard class: 6.1  
Packing group I



### Danger

H300-H310-H330-H314-H373-H410  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Potassium tetraiodomercurate solution, alkaline > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611071600	200 ml	Bottle	Ref Ph.Eur 1071600



## Potassium thiocyanate

Potassio solfocianuro • Potassium sulfocyanure • Potasio solfocianuro

Synonym:  
*Potassium rhodanide*

KSCN  
Molecular Weight: 97,18  
CAS: 333-20-0  
EEC-N: 206-370-1



### Warning

H302-H312-H332-H412-HEU032  
P264-P273-P271-P261-P304+P340-P330

### Potassium thiocyanate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals Water-insoluble matter ..... ≤50 ppm Chloride ..... ≤50 ppm Fe ..... ≤2 ppm  
Identification ..... Positive Reducing iodine ..... Conform ACS Sulphate ..... ≤50 ppm Na ..... ≤50 ppm  
pH sol. 5% at 25° C ..... 5.3 ÷ 8.7 Ammonium ..... ≤30 ppm Heavy metals (Pb) ..... ≤5 ppm Assay (argentimetric) ..... ≥99.0 %

Code	Size	Packaging	Notes
474355	250 g	Plastic bottle	
474357	1 kg	Plastic bottle	

### Potassium thiocyanate > RE - Pure

RE

Description ..... White crystalline powder pH sol. 5% at 20°C ..... 5.0 ÷ 8.7 Heavy metals (Pb) ..... ≤ 20 ppm Fe ..... ≤ 20 ppm  
Identification ..... Positive Chloride ..... ≤ 500 ppm Sulphate ..... ≤ 0.1 % Assay (argentimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
363756	500 g	Plastic bottle	
363752	25 kg	Plastic bucket	



## Potassium thiocyanate 0.1 mol/l (0.1N)

Potassio solfocianuro 0.1 mol/l (0.1N) • Potassium sulfocyanure 0.1 mol/l (0.1N) •  
Potasio solfocianuro 0.1 mol/l (0.1N)

Synonym:  
*Potassium rhodanide*

KSCN  
Molecular Weight: 97,18  
CAS: 333-20-0

HEU031-HEU210

### Potassium thiocyanate 0.1 mol/l (0.1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E474417	1 l	Plastic bottle	

**9.718 g of KSCN. Volumetric solution ready-to-use : 0.1N. Stabilized with p-oxybenzoate**



## Potassium thiocyanate solution 5%

Potassio solfocianuro soluzione 5% • Potassium sulfocyanure solution 5% • Potasio sulfocianuro solución 5%

Synonym:

Potassium rhodanide

KSCN

HEU031-HEU210

Molecular Weight: 97,18

CAS: 333-20-0

### Potassium thiocyanate solution 5% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.020 ÷ 1.030

Code	Size	Packaging	Notes
E474381	1 l	Plastic bottle	

Stabilized with methyle p-hydroxybenzoate and n-Propyle p-hydroxybenzoate



## Potassium thiocyanate solution

Potassio solfocianuro soluzione • Potassium sulfocyanure solution • Potasio sulfocianuro solución

Synonym:

Potassium rhodanide

KSCN

Molecular Weight: 97,18

CAS: 333-20-0

### Potassium thiocyanate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611071801	1 l	Plastic bottle	A 97 g/l solution Ref Ph.Eur 1071801



## Praseodymium standard solution

Praseodimio standard soluzione • Praséodyme solution standard • Praseodimio, solución patrón

### Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group III



### Danger

H314-H319

P264-P280-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

### Praseodymium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505782	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505785	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

### Praseodymium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503821	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503825	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503823	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503827	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Primary opalescent suspension

Sospensione primaria di opalescenza • Suspension mère d'opalescence • Suspensión opalescente primaria



### Danger

H317-H350-HA26

P280-P261-P272-P308+P313-P333+P313-

P302+P352a

### Primary opalescent suspension > RS - For analysis according to USP-Ph. Eur. Chap. 2.2.1

RS

Code	Size	Packaging	Notes
612201100	100 ml	Glass bottle	Formazin suspension



## Primary solutions for degree of coloration of liquids

Soluzioni primarie per il grado di colorazione dei liquidi • Solutions primaires pour le degré de coloration des liquides • Soluciones primarias para el grado de coloración de líquidos

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group III



H411  
P273-P391-P501a

### Primary solutions for degree of coloration of liquids > RS - For analysis according to Ph. Eur. Chap. 2.2.2

RS

Code	Size	Packaging	Notes
612202100	100 ml	Glass bottle	Yellow primary solution
612202200	100 ml	Plastic bottle	Red primary solution
612202300	100 ml	Plastic bottle	Blue primary solution

### Primary solutions for degree of coloration of liquids > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
612002100	100 ml	Glass bottle	Yellow primary solution
612002200	100 ml	Plastic bottle	Red primary solution
612002300	100 ml	Plastic bottle	Blue primary solution



## L(-)Proline

L(-)Prolina • L(-)Proline • L(-)Prolina

Synonym:  
(S)-Pyrrolidine-2-carboxylic acid

$\text{NH}(\text{CH}_2)_3\text{CHCOOH}$   
Molecular Weight: 115,13  
CAS: 147-85-3  
EEC-N: 205-702-2

### L(-)Proline > RPE - For analysis

RPE

Description ..... White crystalline powder	Loss on drying ..... ≤ 0.3 %	Sulphate ..... ≤ 200 ppm	Altri amminoacidi (TLC) ..... ≤ 0.5 %
Identification ..... Positive	Ammonium ..... ≤ 200 ppm	Sulphated ash ..... ≤ 0.1 %	Trasmittanza a 430 nm (C=10; H <sub>2</sub> O) ≥ 95 %
Potere rotat. spec. a 20°C (C=4; H <sub>2</sub> O)-86.8 ÷ -84.5°	Chloride ..... ≤ 200 ppm	As ..... ≤ 1 ppm	Assay (non-aqueous medium) .99.0 ÷ 101.0 %
pH 2,5% at 25° C ..... 5.5 ÷ 7	Heavy metals (Pb) ..... ≤ 10 ppm	Fe ..... ≤ 10 ppm	

Code	Size	Packaging	Notes
474708	5 g	Glass bottle	
474709	25 g	Glass bottle	



## Propan-1-ol

Propan-1-olo • Propane-1-ol • Propan-1-ol

Synonym:  
1-Propanol  
Propyl alcohol

$\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$   
Molecular Weight: 60,1  
CAS: 71-23-8  
EEC-N: 200-746-9

### Classification transport

ONU: 1274  
Transport Hazard class: 3  
Packing group III



### Danger

H225-H318-H336  
P243-P303+P361+P353-P304+P340-P305+P351+P338-P312a-P403+P235

### Propan-1-ol > RS - For HPLC - Isocratic Grade

RS

Description ..... Clear colourless liquid	Boiling point ..... 96.9 ÷ 97.4 °C	Assay (GLC) ..... ≥99.5 %	at 240 nm ..... ≥79 %
Identification ..... Positive	Acidity or alkalinity ..... ≤0.00015 meq/g	<b>U.V. Transmittance</b>	at 250 nm ..... ≥89 %
Density at 20° C ..... 0.803 ÷ 0.805	Water (K.F.) ..... ≤500 ppm	at 220 nm ..... ≥20 %	at 270 nm ..... ≥96 %
Refractive index at 20°C .1.3840 ÷ 1.3860	Residue on evaporation ..... ≤10 ppm	at 230 nm ..... ≥56 %	at 290 nm ..... ≥98 %

Code	Size	Packaging	Notes
412541000	1 l	Glass bottle	
412542000	2.5 l	Glass bottle	

Filtered through 0.2 µm membrane

## Propan-1-ol > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C ..... 1.384 - 1.386    Non volatile residue ..... ≤ 10 mg/Kg    Assay (GC) ..... ≥ 99.5 %  
 Water content (K.F.) ..... ≤ 300 mg/Kg    Colour ..... ≤ 10 Hazen    Free acid (as CH<sub>3</sub>COOH) ..... ≤ 0.03 % m/m

Code	Size	Packaging	Notes
P0941016	1 l	Glass bottle	
P0941021	2.5 l	Glass bottle	
P0941049	25 l	Plastic tank	

## Propan-1-ol > RPE - For analysis - Reag.Ph.Eur.

**RPE**

Description ..... Clear liquid    Density at 20° C ..... 0.803 ÷ 0.805    Distillation range ..... 96 ÷ 99°C    Acidity (acetic acid) ..... ≤ 0.03 %  
 Identification (I.R.) ..... Conform    Refractive index at 20°C. 1.3840 ÷ 1.3860    Water (K.F.) ..... ≤ 1000 ppm    Assay (GLC) ..... ≥ 99.5 %  
 Colour ..... ≤ 10 APHA    Boiling point ..... 96 ÷ 98 ° C    Residue on evaporation ..... ≤ 5 ppm

Code	Size	Packaging	Notes
415104	1 l	Glass bottle	
415102	2.5 l	Glass bottle	
415108	10 l	Plastic tank	
415106	25 l	Aluminium can	

## Propan-1-ol > RE - Pure

**RE**

Description ..... Clear liquid    Density at 20° C ..... 0.802 ÷ 0.806    Water (K.F.) ..... ≤ 0.5 %    Assay (GLC) ..... ≥ 99 %  
 Identification ..... Positive    Refractive index at 20°C. 1.3830 ÷ 1.3870    Residue on evaporation ..... ≤ 50 ppm    Colour ..... ≤ 10 APHA

Code	Size	Packaging	Notes
309351	1 l	Glass bottle	
309352	2.5 l	Glass bottle	
309354	5 l	Plastic tank	
309353	25 l	Plastic tank	
309358	165 kg	Metal drum	



## Propan-2-ol

Propan-2-olo • Propane-2-ol • Propan-2-ol

 Synonym:  
 2-Propanol  
 Isopropanol

CH<sub>3</sub>CHOHCH<sub>3</sub>  
 Molecular Weight: 60,1  
 CAS: 67-63-0  
 EEC-N: 200-661-7

**Classification transport**  
 ONU: 1219  
 Transport Hazard class: 3  
 Packing group II



### Danger

H225-H319-H336  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

## Propan-2-ol > RS - For LC/MS

**RS**

Description ..... Clear colourless liquid    Alkalinity (NH<sub>3</sub>) ..... ≤ 0.0005 %    **HPLC Gradient**    Na ..... ≤ 50 ppb  
 Colour ..... ≤ 10 APHA    Assay (CPG) ..... ≥ 99.95 %    At 254 nm ..... ≤ 2 mAU    Ca ..... ≤ 50 ppb  
 Identification (I.R.) ..... Positive    **Transmittance**    **Test LC-MS TIC (50-2000m/z) ES I(+)**    Mg ..... ≤ 50 ppb  
 Refractive index at 20°C ..... 1.375 - 1.379    At 220 nm ..... ≥ 64 %    Sensitive Impurities (reserpine) ..... ≤ 100 ppb    K ..... ≤ 50 ppb  
 Water (K.F.) ..... ≤ 200 ppm    At 230 nm ..... ≥ 80 %    **Metals compounds**  
 Residue on evaporation ..... ≤ 2 ppm    At 260 nm ..... ≥ 98.5 %    Al ..... ≤ 50 ppb  
 Acidity (acetic acid) ..... ≤ 0.0010 %    Fe ..... ≤ 50 ppb

Code	Size	Packaging	Notes
415183	1 l	Glass bottle	
415184	2.5 l	Glass bottle	

## Propan-2-ol > RS - For HPLC PLUS Gradient grade

**RS**

Description ..... Clear colourless liquid    Acidity or alkalinity ..... ≤ 0.0001 meq/g    **Fluorescence**    at 230 nm ..... ≥ 79 %  
 Identification ..... Positive    Water (K.F.) ..... ≤ 0.1 %    at 254 nm ..... ≤ 2 ppb    at 240 nm ..... ≥ 89 %  
 Density at 20° C ..... 0.784 ÷ 0.786    Residue on evaporation ..... ≤ 2 ppm    at 365 nm ..... ≤ 2 ppb    at 250 nm ..... ≥ 96 %  
 Refractive index at 20°C. 1.3766 ÷ 1.3786    Assay (GLC) ..... ≥ 99.5 %    **U.V. Transmittance**    at 260 nm ..... ≥ 98 %  
 Boiling point ..... 82.1 ÷ 82.6 ° C    at 220 nm ..... ≥ 63 %    at 270 nm ..... ≥ 99 %

Code	Size	Packaging	Notes
412711000	1 l	Glass bottle	
412712000	2.5 l	Glass bottle	

**Filtered through 0.2 µm membrane**

## Propan-2-ol > RS - For HPLC Isocratic grade - ACS - Reag.Ph.Eur - Reag.USP

**RS**

Appearance .....	Clear liquid	Density at 20°C .....	0.784 ÷ 0.786	Assay (GLC) .....	≥ 99.9 %	at 275 nm .....	≤ 0.03 AU
Identification .....	Positive	Refractive index at 20°C .....	1.3766 ÷ 1.3786	<b>Absorbance UV (ACS - USP)</b>		at 300 nm .....	≤ 0.02 AU
Color .....	≤ 10 APHA	Carbonyl comp. (propionald. and acetone) .....	≤ 20 ppm	at 210 nm .....	≤ 1.00 AU	from 400 to 330 nm .....	≤ 0.01 AU
Solubility in water .....	Passes test	Residue after evaporation .....	≤ 5 ppm	at 220 nm .....	≤ 0.40 AU	<b>Transmittance UV (RS CLHP - Reag Ph Eur)</b>	
Miscibility in alcohol .....	Passes test	Water (H <sub>2</sub> O) .....	≤ 500 ppm	at 230 nm .....	≤ 0.20 AU	at 250 nm .....	≥ 95 %
Miscibility in water .....	Passes test	Titration acid or base .....	≤ 0.0001 meq/g	at 245 nm .....	≤ 0.08 AU	<b>Filtered at 0,2 µm</b>	
Boiling point .....	82.05 ÷ 82.55 °C			at 260 nm .....	≤ 0.04 AU		

Code	Size	Packaging	Notes
412821	1 l	Glass bottle	
525161	2.5 l	Glass bottle	

## Propan-2-ol > RS - For HPLC - Isocratic Grade

**RS**

Description .....	Clear colourless liquid	Boiling point .....	82.1 ÷ 82.6 °C	<b>U.V. Transmittance</b>		at 250 nm .....	≥ 96 %
Identification .....	Positive	Acidity or alkalinity .....	≤ 0.0001 meq/g	at 210 nm .....	≥ 20 %	at 260 nm .....	≥ 98 %
Density at 20° C .....	0.784 ÷ 0.786	Water (K.F.) .....	≤ 0.1 %	at 220 nm .....	≥ 63 %	at 270 nm .....	≥ 99 %
Colour .....	≤ 10 Hazen	Residue on evaporation .....	≤ 2 ppm	at 230 nm .....	≥ 79 %		
Refractive index at 20°C .....	1.3766 ÷ 1.3786	Assay (GLC) .....	≥ 99.9 %	at 240 nm .....	≥ 89 %		

Code	Size	Packaging	Notes
412421000	1 l	Glass bottle	
412422000	2.5 l	Glass bottle	

**Filtered through 0.2 µm membrane**

## Propan-2-ol > RS - For preparative HPLC

**RS**

Description .....	Clear colourless liquid	Refractive index at 20°C .....	1.3766 ÷ 1.3786	Residue on evaporation .....	≤ 5 ppm	<b>U.V. Transmittance</b>	
Identification .....	Positive	Boiling point .....	82.1 ÷ 82.6 °C	Alcalinity (NH <sub>3</sub> ) .....	≤ 0.0002 meq/g	at 220 nm .....	≥ 50 %
Density at 20° C .....	0.784 ÷ 0.786	Water (K.F.) .....	≤ 500 ppm	Assay (GLC) .....	≥ 99.5 %	at 255 nm .....	≥ 97 %

Code	Size	Packaging	Notes
415112	2.5 l	Glass bottle	

## Propan-2-ol > RS - PESTIPUR - For pesticide analysis

**RS**

Clear, colourless liq. appearance .....	Conform	Colour .....	≤ 10 Apha	Free acid (as CH <sub>3</sub> COOH) .....	≤ 20 mg/Kg	<b>Retention time trichlorobenzene to mirex</b>	
Identification .....	Conform	Water content (K.F.) .....	≤ 500 mg/Kg	Assay (GC) .....	≥ 99.9 %	GC-NPD. Individual peak (Ethylparathion) .....	≤ 3 ng/l
Refractive index at 20°C .....	1.375 - 1.379	Non volatile residue .....	≤ 2 mg/Kg	GC-ECD. Individual peak (Lindane) .....	≤ 3 ng/l	<b>Retention time Atrazin to Coumaphos</b>	

Code	Size	Packaging	Notes
415281	1 l	Glass bottle	

## Propan-2-ol > RS - SPECTROSOL - For optical spectroscopy

**RS**

Description .....	Clear liquid	Water (K.F.) .....	≤ 500 ppm	<b>Fluorescence</b>		at 230 nm .....	≥ 80 %
Colour (APHA) .....	≤ 10	Residue on evaporation .....	≤ 5 ppm	at 254 nm .....	≤ 2 ppb	at 250 nm .....	≥ 95 %
Identification .....	Positive	Acidity .....	≤ 0.0005 meq/g	at 365 nm .....	≤ 2 ppb	at 260 nm .....	≥ 98 %
Density at 20° C .....	0.784 ÷ 0.786	Alcalinity .....	≤ 0.0002 meq/g	<b>U.V. Transmittance</b>			
Refractive index at 20°C .....	1.3766 ÷ 1.3786	Assay (GC) .....	≥ 99.8 %	at 205 nm .....	≥ 10 %		
Boiling point .....	82.1 ÷ 82.6 °C			at 215 nm .....	≥ 50 %		

Code	Size	Packaging	Notes
415213	1 l	Glass bottle	

## Propan-2-ol > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C .....	1.375 - 1.379	Non volatile residue .....	≤ 10 mg/Kg	Assay (GC) .....	≥ 99.8 %
Water content (K.F.) .....	≤ 300 mg/Kg	Colour .....	≤ 10 Hazen	Free acid (as CH <sub>3</sub> COOH) .....	≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0951010	200 ml	Bottle with septum	
P0951016	1 l	Glass bottle	



## Propan-2-ol > RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527696	1 l	Glass bottle	
527690	2.5 l	Glass bottle	
527691	30 l	Plastic drum	

For specifications, contact our customer service for a certificate of analysis

## Propan-2-ol > RS - RSE - For electronic use

RS

Description	Clear liquid	Chloride	≤0.2 ppm	Bi	≤0.02 ppm	Mo	≤0.05 ppm
Colour (APHA)	≤10	Total phosphorus	≤0.1 ppm	Ca	≤0.2 ppm	Na	≤0.5 ppm
Identification	Positive	Heavy metals (Pb)	≤0.1 ppm	Cd	≤0.01 ppm	Ni	≤0.01 ppm
Water miscibility	Conform	Subst. reducing KMnO4	≤2.5 ppm	Co	≤0.01 ppm	Pb	≤0.01 ppm
Assay (GLC)	≥99.7 %	Total sulphur	≤1 ppm	Cr	≤0.01 ppm	Pt	≤0.05 ppm
Resistivity	≥10 Mohm.cm	Phosphate	≤0.5 ppm	Cu	≤0.01 ppm	Sb	≤0.01 ppm
Density at 20° C	0.784 ÷ 0.786	Ag	≤0.02 ppm	Fe	≤0.1 ppm	Sn	≤0.02 ppm
Boiling point	82.1 ÷ 82.6 ° C	Al	≤50 ppb	Ga	≤0.02 ppm	Sr	≤0.02 ppm
Water (K.F.)	≤500 ppm	As	≤0.01 ppm	In	≤0.02 ppm	Ti	≤0.05 ppm
Residue on evaporation	≤5 ppm	Au	≤0.05 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Acidity (propionic ac.)	≤10 ppm	B	≤0.01 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Alcalinity (NH3)	≤2 ppm	Ba	≤0.1 ppm	Mg	≤0.1 ppm	Zn	≤10 ppb
Aldehydes - ketones	≤50 ppm	Be	≤0.02 ppm	Mn	≤0.01 ppm	Zr	≤0.05 ppm

Code	Size	Packaging	Notes
415237	1 l	Glass bottle	
415235	2.5 l	Glass bottle	
415231	5 l	Metal tank	
415238	5 l	Plastic bottle	
415236	27 l	Metal drum	
415233	200 l	Metal drum	

## Propan-2-ol > RS - MOS For electronic use

RS

Description	Clear liquid	Chloride	≤0.2 ppm	Ca	≤0.2 ppm	Na	≤0.5 ppm
Colour (APHA)	≤10	Phosphate	≤0.5 ppm	Cd	≤0.01 ppm	Ni	≤0.01 ppm
Identification	Positive	Heavy metals (Pb)	≤0.1 ppm	Co	≤0.01 ppm	Pb	≤0.01 ppm
Water miscibility	Conform	Subst. reducing KMnO4	≤2.5 ppm	Cr	≤0.01 ppm	Pt	≤0.05 ppm
Resistivity	≥10 Mohm.cm	Total sulphur	≤1 ppm	Cu	≤0.01 ppm	Sb	≤0.01 ppm
Assay (GLC)	≥99.7 %	Ag	≤0.02 ppm	Fe	≤0.1 ppm	Sn	≤0.02 ppm
Density at 20° C	0.784 ÷ 0.786	Al	≤0.05 ppm	Ga	≤0.02 ppm	Sr	≤0.02 ppm
Boiling point	82.1 ÷ 82.6 ° C	As	≤0.01 ppm	In	≤0.02 ppm	Ti	≤0.05 ppm
Water (K.F.)	≤500 ppm	Au	≤0.05 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Residue on evaporation	≤5 ppm	B	≤0.01 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Acidity (propionic ac.)	≤10 ppm	Ba	≤0.1 ppm	Mg	≤0.1 ppm	Zn	≤0.01 ppm
Alcalinity (NH3)	≤2 ppm	Be	≤0.02 ppm	Mn	≤0.01 ppm	Zr	≤0.05 ppm
Aldehydes - ketones	≤50 ppm	Bi	≤0.02 ppm	Mo	≤0.05 ppm		

Code	Size	Packaging	Notes
415162	1 l	Glass bottle	
415161	2.5 l	Glass bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

## Propan-2-ol > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Clear liquid	Residue on evaporation .....	≤ 10 ppm	B .....	≤ 0.02 ppm	Mg .....	≤ 0.1 ppm
Colour (APHA) .....	≤ 10	Acidity or alkalinity .....	≤ 0.0001 meq/g	Ba .....	≤ 0.5 ppm	Mn .....	≤ 0.01 ppm
Identification (I.R.) .....	Conform	Carbonyl compounds (acetone) ...	≤ 20 ppm	Ca .....	≤ 0.5 ppm	Ni .....	≤ 0.01 ppm
Water miscibility .....	Conform	Carbonyl compounds (propionaldehyde)	≤ 20 ppm	Cd .....	≤ 0.01 ppm	Pb .....	≤ 0.01 ppm
Density at 20° C .....	0.785 ÷ 0.789	Subst. reducing KMnO4 .....	≤ 5 ppm	Co .....	≤ 0.01 ppm	Zn .....	≤ 0.01 ppm
Refractive index at 20°C .....	1.3766 ÷ 1.3786	Heavy metals (Pb) .....	≤ 1 ppm	Cr .....	≤ 0.01 ppm	Assay (GLC) .....	≥ 99.9 %
Boiling point .....	82.1 ÷ 82.6 ° C	Al .....	≤ 0.5 ppm	Cu .....	≤ 0.01 ppm		
Water (K.F.) .....	≤ 0.1 %			Fe .....	≤ 0.1 ppm		

Code	Size	Packaging	Notes
415154	1 l	Glass bottle	
524171	1 l	Spray bottle	
415156	2.5 l	Glass bottle	
415158	2.5 l	Plastic bottle	
415173	5 l	Plastic bottle	
529174	5 l	Plastic tank	
415153	10 l	Plastic tank	
415157	25 l	Aluminium can	
524170	25 l	Plastic tank	
415152	200 l	Metal drum	

## Propan-2-ol > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-Ph.Franc.-BP

**ERBApharm**

Description .....	Clear colourless liquid	Peroxide .....	Conform Ph.Eur.	Water (K.F.) .....	≤ 0.1 %	Limit of volatiles impurities	Conform USP-NF
Identification .....	Positive	Absorbance .....	Conform Ph.Eur.	Non volat.substances .....	≤ 20 ppm	Any single impurity .....	≤ 0.1 %
Appearance of solution .....	Conform Ph.Eur.	Density at 20°C .....	0.785 ÷ 0.789	Assay (GLC) .....	≥ 99.9 %	Total impurities (GC) .....	≤ 1.0 %
Acidity or alkalinity .....	Conform Ph.Eur.	Density at 25° C .....	0.783 ÷ 0.787	Benzene .....	≤ 2 ppm	Origin (BSE/TSE) .....	Synthesis
Acidity (ml NaOH 0,020N) .....	≤ 0.70 ml	Refractive index at 20°C .....	1.376 ÷ 1.378	Related compounds .....	≤ 0.3 %	Residual solvents (Current ICH) .....	Conform

Code	Size	Packaging	Notes
309501	1 l	Glass bottle	
309505	2.5 l	Glass bottle	
529165	5 l	Plastic tank	
309506	10 l	Plastic tank	
309504	25 l	Metal drum	
309507	25 l	Plastic tank	
309503	160 kg	Metal drum	
309500	200 l	Metal drum	
309509	200 l	Plastic drum	

## Propan-2-ol > RE - Pure

**RE**

Description .....	Clear colourless liquid	Residue on evaporation .....	≤ 20 ppm	Acidity (acetic acid) .....	≤ 20 ppm
Water (K.F.) .....	≤ 2000 ppm	Refractive index at 20°C .....	1.375 ÷ 1.379	Colour .....	≤ 10 APHA

Code	Size	Packaging	Notes
529093	5 l	Plastic tank	
529092	25 l	Plastic tank	
529091	200 l	Metal drum	



## Propan-2-ol 70%

Propan-2-ol 70% • Propane-2-ol 70% • Propan-2-ol 70%

 Synonym:  
 2-Propanol  
 Isopropanol

 $\text{CH}_3\text{CHOHCH}_3$   
 Molecular Weight: 60,1  
 CAS: 67-63-0

**Classification transport**  
 ONU: 1219  
 Transport Hazard class: 3  
 Packing group II

**Danger**

 H225-H319-H336  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

## Propan-2-ol 70% > RPE - For analysis - ACS

**RPE**

Description .....	Clear colourless liquid	Density at 20°C .....	0.856 ÷ 0.862
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Code	Size	Packaging	Notes
524161	25 l	Plastic tank	

**Propan-2-ol 70% > ERBApharm - According to pharmacopoeia : Ph.Eur.-Microbiological tested****ERBApharm**

Description .....	Clear colourless liquid	Related substances (CPG) .....	≤ 0.3 %	Residual solvents (Current ICH).....	Conform	<b>Test of specified micro-organisms</b>	
Density at 20°C .....	0.856 - 0.862	Absorbance .....	Conform Ph.Eur.	Total aerobic microbial count (TAMC) ....	≤ 5 CFU/100ml	Enterobacteriaceae.....	Absent/100 ml
Assay (alcoholic) at 20°C .....	69 - 71 % (m/m)	Benzene .....	≤ 2 ppm	Total yeasts/mould count (TYMC).....	≤ 5 CFU/100ml	Staphylococcus aureus.....	Absent/100 ml
		Origin (BSE/TSE).....	Synthesis			Pseudomonas aeruginosa...	Absent/100 ml

Code	Size	Packaging	Notes
524195	5 l	Plastic tank	

**Propan-2-ol 70% > ERBApharm - Prepared from raw material according Ph.Eur****ERBApharm**

Description .....	Clear colourless liquid	Density at 20°C .....	0.856 ÷ 0.862	Assay (alcoholic) at 20°C.....	69 ÷ 71 % (m/m)
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Code	Size	Packaging	Notes
524182	1 l	Plastic bottle	
524183	1 l	Spray bottle	6 units / box
524184	2.5 l	Plastic bottle	
524181	5 l	Plastic tank	

Propanedioic acid ► Malonic acid

1,2-Propanediol ► Propylene glycol

**1,3-Propanediol**

1,3-Propandiol • 1,3-Propanediol • 1,3-Propanodiol

 Synonym:  
 1,3-Dihydroxypropane  
 Trimethylene glycol

 $\text{CH}_2\text{OHCH}_2\text{CH}_2\text{OH}$   
 Molecular Weight: 76,1  
 CAS: 504-63-2  
 EEC-N: 207-997-3
**1,3-Propanediol > RE - Pure****RE**

Appearance .....	Clear and viscous liquid	Refractive index at 20°C.....	1.438 - 1.442	Colour .....	≤ 15 Hazen
Identification (IR).....	Conform	Water content (K.F.) .....	≤ 1000 mg/Kg	Assay (GC) .....	≥ 99.7 %

Code	Size	Packaging	Notes
P8040216	1 l	Glass bottle	
P8040222	5 l	Plastic tank	
P8040268	190 l	Metal drum	

**1-Propanesulfonic acid sodium salt**

Acido 1-propanosulfonico sale sodico • Acide 1-propanesulfonique sel sodique • Acido 1-propanosulfónico sal sódica

 $\text{CH}_3\text{CH}_2\text{CH}_2\text{SO}_3\text{Na}$   
 Molecular Weight: 146,14  
 CAS: 14533-63-2
**1-Propanesulfonic acid sodium salt > RS - For ion pair chromatography****RS**

Description .....	White crystalline powder	<b>Absorbance</b>	At 220 nm .....	≤ 0.02 AU	At 260 nm .....	≤ 0.01 AU
Water (K.F.) .....	≤ 2.0 %	At 200 nm .....	≤ 0.05 AU	At 230 nm .....	≤ 0.02 AU	
Assay .....	≥ 98.0 %	At 210 nm .....	≤ 0.03 AU	At 250 nm .....	≤ 0.01 AU	

Code	Size	Packaging	Notes
405901	25 g	Glass bottle	
405902	100 g	Plastic bottle	

1,2,3-Propanetriol ► Glycerol (30°Bé)

Propanoic acid ► Propionic acid

## 2-Propanone ▶ Acetone



### Propionaldehyde

Aldeide propionica • Aldéhyde propionique • Aldehído propiónico

Synonym:  
Propanal

CH<sub>3</sub>CH<sub>2</sub>CHO  
Molecular Weight: 58,08  
CAS: 123-38-6  
EEC-N: 204-623-0

**Classification transport**  
ONU: 1275  
Transport Hazard class: 3  
Packing group II



#### Danger

H225-H315-H319-H335  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Propionaldehyde > RE - Pure

RE

Description ..... Clear colourless liquid    Identification ..... Positive    Refractive index at 20°C. 1.3610 ÷ 1.3650    Assay (GLC) ..... ≥ 96.0 %

Code	Size	Packaging	Notes
310504	100 ml	Glass bottle	



### Propionic acid

Acido propionico • Acide propionique • Acido propiónico

Synonym:  
Propanoic acid  
Propanyl acid

CH<sub>3</sub>CH<sub>2</sub>COOH  
Molecular Weight: 74,08  
CAS: 79-09-4  
EEC-N: 201-176-3

**Classification transport**  
ONU: 3463  
Transport Hazard class: 8  
Packing group II



#### Danger

H226-H314  
P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Propionic acid > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Density at 20° C ..... 0.992 ÷ 0.994    Chloride ..... ≤5 ppm    Fe ..... ≤2 ppm  
Identification ..... Positive    Refractive index at 20°C. 1.3864 ÷ 1.3884    Heavy metals (Pb) ..... ≤5 ppm    Assay (acidimetric) ..... ≥99.5 %  
Water miscibility ..... Conform    Boiling point ..... 140 ÷ 142 ° C    Residue on evaporation ..... ≤50 ppm  
Alcohol miscibility ..... Conform    Water (K.F) ..... ≤0.25 %    Sulphate ..... ≤10 ppm

Code	Size	Packaging	Notes
409551	250 ml	Glass bottle	
409553	1 l	Glass bottle	

### Propionic acid > RE - Pure

RE

Description ..... Yellow clear liquid    Density at 20° C ..... 0.988 ÷ 0.998    Residue on evaporation ..... ≤ 100 ppm  
Identification ..... Positive    Refractive index at 20°C ..... 1.3854 ÷ 1.3894    Assay (acidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
306254	1 l	Glass bottle	

## Propionic acid calcium salt ▶ Calcium propionate



### n-Propyl acetate

n-Propile acetato • n-Propyle acétate • n-Propil acetato

CH<sub>3</sub>COO(CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub>  
Molecular Weight: 102,13  
CAS: 109-60-4  
EEC-N: 203-686-1

**Classification transport**  
ONU: 1276  
Transport Hazard class: 3  
Packing group II



#### Danger

H225-H319-H336-HEU066  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### n-Propyl acetate > RPE - For analysis

RPE

Description ..... Clear liquid    Colour ..... ≤ 10 Apha    Water (K.F) ..... ≤ 1000 ppm  
Identification ..... Positive    Refractive index at 20°C ..... 1.3812 ÷ 1.3882    Assay (GLC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
474807	1 l	Glass bottle	

## n-Propyl alcohol ▶ Propan-1-ol



## Propyl p-hydroxybenzoate

Propile p-ossibenzoato • Propyle p-oxybenzoate • Propil p-hidroixibenzoato

Synonym:  
Propylparaben

HOC6H4COO(CH2)2CH3  
Molecular Weight: 180,21  
CAS: 94-13-3  
EEC-N: 202-307-7



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Propyl p-hydroxybenzoate > ERBApharm - According to pharmacopoeia : DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.

**ERBApharm**

Description ..... White crystalline powder    Acidity ..... Conform Ph.Eur.    Melting point ..... 96 ÷ 99 °C    Origin (BSE/TSE) ..... Synthesis  
Identification ..... Positive    Related compounds ..... Conform Ph.Eur.    Sulphated ash ..... ≤ 0.1 %  
Appearance of solution ..... Conform Ph.Eur.    Organic volatile impurities Conform USP-NF    Assay (saponification) ..... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
363953	50 g	Glass bottle	
363956	500 g	Plastic bottle	



## Propylene carbonate

Propilene carbonato • Propylène carbonate • Propileno carbonato

Synonym:  
1,2-Propanediol cyclic carbonate

OCH(CH3)CH2OCO  
Molecular Weight: 102,09  
CAS: 108-32-7  
EEC-N: 203-572-1



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Propylene carbonate > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.200 ÷ 1.206    Boiling point ..... 241.0 ÷ 242.5 °C    Assay (acidimetric) ..... ≥99 %  
Identification ..... Positive    Refractive index at 20°C. 1.4199 ÷ 1.4219    Residue on ignition ..... ≤100 ppm

Code	Size	Packaging	Notes
474871	1 l	Glass bottle	



## Propylene glycol

Glicol propileno • Propylène glycol • Propilenglicol

Synonym:  
1,2-Propanediol

CH2OHCHOHCH3  
Molecular Weight: 76,09  
CAS: 57-55-6  
EEC-N: 200-338-0

### Propylene glycol > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.034 ÷ 1.038    Alkalinity (NH4OH) ..... ≤0.85 ppm    Residue on ignition ..... ≤50 ppm  
Identification ..... Positive    Refractive index at 20°C. 1.4309 ÷ 1.4339    Chloride ..... ≤20 ppm    Sulphate ..... ≤20 ppm  
Water miscibility ..... Conform    Boiling point ..... 188.0 ÷ 190.0 °C    Carbonyl Compounds (CO) ..... ≤100 ppm    As ..... ≤2 ppm  
Miscb. with Acetone ..... Complete    Water (K.F.) ..... ≤0.1 %    Heavy metals (Pb) ..... ≤2 ppm    Fe ..... ≤2 ppm  
Alcohol miscibility ..... Complete    Acidity (acetic acid) ..... ≤3 ppm    Peroxides (H2O2) ..... ≤5 ppm    Assay (GLC) ..... ≥99.5 %

Code	Size	Packaging	Notes
454054	1 l	Glass bottle	
454053	2.5 l	Glass bottle	
454052	30 kg	Plastic drum	

### Propylene glycol > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

**ERBApharm**

Description ..... Clear colourless liquid    Ethylene glycol ..... ≤ 0.10 %    Density at 20° C ..... 1.035 - 1.040 Ph.Eur.    Sulphated ash ..... ≤70 ppm  
Identification ..... Positive Ph. Eur.    Identification C. Same RT to standard by GC    Density at 25°C ..... 1.035 - 1.037 USP    Chloride ..... ≤70 ppm  
Identification A (IR) ..... Conform USP    USP    Boiling point ..... 184 ÷ 189 °C    Heavy metals (Pb) ..... ≤ 5 ppm (m/V)  
**Identification B :**    Acidity ..... Conform Ph.Eur.    Refractive index at 20°C ..... 1.431 ÷ 1.433    Sulphate ..... ≤60 ppm  
Diethylene glycol ..... ≤ 0.10 %    Reducing substances ..... Conform Ph.Eur.    Water (K.F.) ..... ≤0.2 %    Assay (GLC) ..... ≥99.5 %  
Oxidizing substances ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
346701	1 l	Glass bottle	
346703	2.5 l	Glass bottle	
346705	60 kg	Plastic tank	
346708	200 kg	Plastic drum	



## Pumice stone

Pomice • Pierre ponce • Piedra pómez

CAS: 1332-09-8

### Pumice stone > RPE - For analysis

RPE

Description ..... Granuli grigiastri Identification ..... Positive

Code	Size	Packaging	Notes
469971	250 g	Plastic bottle	



## Pyridine

Piridina • Pyridine • Piridina

N:CHCH:CHCH:CH

CAS: 110-86-1

EEC-N: 203-809-9

### Classification transport

ONU: 1282

Transport Hazard class: 3

Packing group II



### Danger

H225-H302-H312-H332

P210-P241-P264-P303+P361+P353-P304+P340-

P403+P235

### Pyridine > RS - Anhydrous - For analysis

RS

Water content (K.F.) ..... ≤ 200 mg/Kg Assay (GC) ..... ≥ 99.8 % Refractive index at 20°C ..... 1.508 - 1.512  
 Colour ..... ≤ 20 Hazen Non volatile residue ..... ≤ 10 mg/Kg

Code	Size	Packaging	Notes
P0671010	200 ml	Bottle with septum	
P06710S10	200 ml	Bottle with septum	Water content < 100 ppm
P0671016	1 l	Glass bottle	
P0671021	2.5 l	Glass bottle	

### Pyridine > RS - For peptide synthesis

RS

Water content (K.F.) ..... ≤ 100 mg/Kg Colour ..... ≤ 10 Hazen Kaiser Test ..... Conform Assay (GC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
P0673516	1 l	Glass bottle	
P0673521	2.5 l	Glass bottle	

### Pyridine > RS - For potentiometry

RS

Water content (K.F.) ..... ≤ 500 mg/Kg Tetrabutylamm.hydroxyde test ..... Conform Non volatile residue ..... ≤ 20 mg/Kg  
 Colour ..... ≤ 10 Hazen Assay (GC) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
P06725P16	1 l	Glass bottle	

### Pyridine > RS - For titration according to Karl Fischer

RS

Description ..... Clear colourless liquid Density at 20 °C ..... 0.979 ÷ 0.985 Boiling point ..... 114.2 ÷ 116.2 ° C Assay (GLC) ..... ≥99.6 %  
 Identification ..... Positive Refractive index at 20°C. 1.5050 ÷ 1.5140 Water (K.F.) ..... ≤500 ppm

Code	Size	Packaging	Notes
469652	1 l	Glass bottle	

### Pyridine > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Clear colourless liquid Boiling point ..... 114.2 - 116.2 ° C Residue on evaporation ..... ≤20 ppm Sulphate ..... ≤10 ppm  
 Identification ..... Positive Subst. reducing KMnO4 ..... Conform Ammonia ..... ≤20 ppm Cu ..... ≤5 ppm  
 Water solubility ..... Conform Water (K.F.) ..... ≤0.1 % Chloride ..... ≤10 ppm Assay (GLC) ..... ≥99.0 %

Code	Size	Packaging	Notes
469622	500 ml	Glass bottle	
469629	1 l	Glass bottle	
469624	2.5 l	Glass bottle	
469626	20 kg	Plastic drum	
469621	25 kg	Metal drum	
469623	200 l	Metal drum	

## Pyridine > RE - Pure

**RE**

Description .....	Clear colourless liquid or yellowish	Density at 20° C .....	0.979 ÷ 0.985	Water (K.F.) .....	≤0.1 %
Colour .....	≤ 20 APHA	Refractive index at 20°C .....	1.5055 ÷ 1.5135	Residue on evaporation .....	≤50 ppm
Identification .....	Positive	Boiling point .....	113.7 ÷ 116.7 °C	Assay (GLC) .....	≥99.8 %

Code	Size	Packaging	Notes
358752	1 l	Glass bottle	
358754	25 kg	Metal drum	
528257	200 l	Metal drum	



## Pyridine-d5

Piridina-d5 • Pyridine-d5 • Piridina-d5

 Synonym:  
Pentadeuteropyridine

 $C_5D_5N$   
 Molecular Weight: 84,14  
 CAS: 7291-22-7  
 EEC-N: 230-720-2

**Classification transport**  
 ONU: 1282  
 Transport Hazard class: 3  
 Packing group II

**Danger**  
 H225-H302-H312-H332  
 P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

## Pyridine-d5 > RS - For NMR - min 99.5%

**RS**

Code	Size	Packaging	Notes
P5369A	2 x 0.75 ml	Glass ampoule	
P5364A	10 ml	Glass ampoule	

## Pyridine-d5 > RS - For NMR - min 99.95%

**RS**

Code	Size	Packaging	Notes
P5370	2 x 0.6 ml	Glass ampoule	



## Pyridoxine dipalmitate

Piridossina dipalmitato • Pyridoxine dipalmitate • Piridossina dipalmitato

 $C_{40}H_{71}NO_5$   
 Molecular Weight: 645,98  
 CAS: 635-38-1

## Pyridoxine dipalmitate > RE - Pure

**RE**

Code	Size	Packaging	Notes
389901	1 kg	Plastic jar	



## 1-(2-Pyridylazo)-2-naphthol

1-(2-Piridile-azo)-2-naftolo • 1-(2-Pyridyl-azo)-2-naphthol • 1-(2-Piridilazo)-2-naftol

 Synonym:  
PAN

 $N:CHCH:CHCH:CN:NC_{10}H_6OH$   
 Molecular Weight: 249,27  
 CAS: 85-85-8  
 EEC-N: 201-637-9



## 1-(2-Pyridylazo)-2-naphthol > RPE - For analysis

**RPE**

Description .....	Orange red powder	E (1%/1cm) a 216nm (in HCl !N) .....	≥ 1400	Assay .....	≥ 97.5 %
Identification .....	Positive	Sulphated ash .....	≤ 0.3 %		

Code	Size	Packaging	Notes
469592	5 g	Glass bottle	

**Complexometric indicator. For extraction and spectrophotometric determination of the transition metals**


	<b>Pyrocatechol</b> Pirocatecolo • Pyrocatéchol • Pirocatequina	Synonym: 1,2-Benzenediol Catechol	
	1,2-(OH) <sub>2</sub> C <sub>6</sub> H <sub>4</sub> Molecular Weight: 110,11 CAS: 120-80-9 EEC-N: 204-427-5	<b>Classification transport</b> ONU: 2811 Transport Hazard class: 6.1 Packing group III	 <b>Warning</b> H302-H312-H315-H319 P264-P280h-P305+P351+P338-P330-P332+P313-P337+P313

### Pyrocatechol > RPE - For analysis

**RPE**

Description ..... Grey-brown flakes    Identification ..... Positive    Melting point ..... 103 ÷ 105 °C    Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
469753	50 g	Glass bottle	

	<b>Pyrocatechol violet</b> Violetto pirocatechina • Violet de pyrocatéchol • Violeta de pirocatequina	Synonym: Pyrocatecholsulfonphthalein	
	C <sub>19</sub> H <sub>14</sub> O <sub>7</sub> S Molecular Weight: 386,39 CAS: 115-41-3 EEC-N: 204-088-3		

### Pyrocatechol violet > RPE - For analysis

**RPE**

Description ..... Brown crystalline powder    Identification ..... Positive    Sensitivity as indicat. .... Conform

Code	Size	Packaging	Notes
491871	1 g	Glass bottle	
491872	25 g	Glass bottle	

#### Complexometric indicator

	<b>Pyrogallol</b> Pirogallolo • Acide pyrogallique • Pirogalol	Synonym: 1,2,3-Trihydroxybenzene	
	1,2,3-(OH) <sub>3</sub> C <sub>6</sub> H <sub>3</sub> Molecular Weight: 126,11 CAS: 87-66-1 EEC-N: 201-762-9	  <b>Warning</b> H302-H312-H332-H341-H412 P264-P273-P271-P304+P340-P308+P313-P330	

### Pyrogallol > RPE - For analysis - ACS - Reag. Ph.Eur.

**RPE**

Description ..... White crystalline powder    Melting point ..... 131 ÷ 135 °C    Fe ..... ≤10 ppm    Sulphate ..... ≤50 ppm  
Identification (I.R.) ..... Positive    Sulphated ash ..... ≤ 0.005 %    Heavy metals (Pb) ..... ≤5 ppm    Chloride ..... ≤10 ppm

Code	Size	Packaging	Notes
409435	250 g	Plastic bottle	
409437	1 kg	Plastic bottle	

### Pyrogallol > RE - Pure

**RE**

Description ..... White crystalline powder    Melting point ..... 131 ÷ 135 °C    Residue on ignition ..... ≤500 ppm  
Identification (I.R.) ..... Conform    Heavy metals (Pb) ..... ≤10 ppm    Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
306111	5 kg	Plastic jar	





## Pyrrolidine dithiocarbamic acid ammonium salt

Acido pirrolidinditiocarbammico sale ammonico • Acide pyrrolidinedithiocarboxylique-1, sel ammoniacal • Acido pirrolidinditiocarbámico sal de amonio

Synonym:  
*Ammonium pyrrolidinedithiocarbamate*

$\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{NCSSNH}_4$   
Molecular Weight: 164,29  
CAS: 5108-96-3  
EEC-N: 225-834-4

### Pyrrolidine dithiocarbamic acid ammonium salt > RPE - For analysis - Reag. Ph.Eur.

**RPE**

Description ..... White yellowish powder    Identification ..... Positive    Assay .....  $\geq 99\%$  (NH<sub>3</sub>)

Code	Size	Packaging	Notes
409471	10 g	Glass bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
**p**  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

	<b>Quartz granular</b> Quarzo granuli • Quartz granulaire • Cuarzo granulado	Synonym: Silica
	$\text{SiO}_2$ Molecular Weight: 60,09 CAS: 14808-60-7 EEC-N: 238-878-4	 <b>Warning</b> H373 P260-P314-P501a

<b>Quartz granular &gt; RE - Pure</b>			<b>RE</b>
Description	White granules	Identification	Positive
Code	Size	Packaging	Notes
364011	100 g	Glass bottle	

	<b>Quinaldine red</b> Rosso chinaldina • Rouge de quinaldine • Rojo de quinaldina	Synonym: 2-(4-Dimethylaminostyryl)-1-ethylquinolinium iodide
	$\text{C}_{21}\text{H}_{23}\text{IN}_2$ Molecular Weight: 430,33 CAS: 117-92-0 EEC-N: 204-221-5	

<b>Quinaldine red &gt; RPE - For analysis</b>			<b>RPE</b>
Description	Dark green powder	Non acq.media ind.sens.	Conform
Identification	Positive	Loss on drying	≤5 %
Colour change	Incolore - rosso		
Code	Size	Packaging	Notes
476687	1 g	Glass bottle	
476688	25 g	Glass bottle	

Acid-base indicator (pH 1.4 ÷ 3.2)

	<b>Quinidine sulfate</b> Chinidina solfato • Quinidine sulfate • Quinidina sulfato	
	$(\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_2)_2 \cdot \text{H}_2\text{SO}_4 \cdot 2\text{H}_2\text{O}$ Molecular Weight: 782,96 CAS: 6591-63-5 EEC-N: 200-046-3	 <b>Warning</b> H302 P264-P270-P330-P301+P312a-P501a

<b>Quinidine sulfate &gt; RPE - For analysis</b>			<b>RPE</b>
Description	White crystalline powder	pH sol. 1% at 25° C	6.0 ÷ 6.8
Identification	Positive	Specific optical rotation	+275.5 ÷ +280.5 °
Ready carbonizable substances	Conform	Loss on drying	4.2 ÷ 5.0 %
Chloride	≤50 ppm		
Alcohol/Chlorof.isolub.	≤500 ppm		
Heavy metals (Pb)	≤10 ppm		
Residue on ignition	≤500 ppm		
Fe	≤10 ppm		
Assay (non-aqueous medium)	≥99 %		
Code	Size	Packaging	Notes
436701	10 g	Glass bottle	

	<b>Quinoline</b> Chinolina • Quinoléine • Quinoleína	Synonym: 1-Benzazine
	$\text{C}_9\text{H}_7\text{N}$ Molecular Weight: 129,16 CAS: 91-22-5 EEC-N: 202-051-6	<b>Classification transport</b> ONU: 2656 Transport Hazard class: 6.1 Packing group III

<b>Quinoline &gt; RE - Pure</b>			<b>RE</b>
Description	Yellow-brown clear liquid	Density at 20° C	1.088 ÷ 1.100
Identification	Positive	Refractive index at 20°C	1.6218 ÷ 1.6318
Boiling point	235.6 ÷ 238.6 °C		
Residue on ignition	≤0.1 %		
Assay (GLC)	≥95 %		
Code	Size	Packaging	Notes
333701	100 ml	Glass bottle	
333707	1 l	Glass bottle	

Quinone ► p-Benzoquinone

**Raffinose**

Raffinosio • Raffinose • Rafinosa

$C_{18}H_{32}O_{16} \cdot 5H_2O$   
 Molecular Weight: 594,51  
 CAS: 17629-30-0  
 EEC-N: 208-146-9

**Raffinose > RPE - For analysis****RPE**

Description .....	White crystalline powder	Water (K.F) .....	≤15.5 %	Total nitrogen .....	≤100 ppm	Sulphate .....	≤50 ppm
Identification .....	Positive	Residue on ignition .....	≤300 ppm	Chloride .....	≤20 ppm	Red.ing sugars(Glucose) .....	≤0.1 %
Melting point .....	79.0 ÷ 81.0 °C	Acidity (acetic acid) .....	≤50 ppm	Water-insoluble matter .....	≤50 ppm	As .....	≤2 ppm
Specific optical rotation	+104.5 ÷ +105.9 °	Starch and Dextrins .....	≤5 ppm	Heavy metals (Pb) .....	≤10 ppm	Fe .....	≤10 ppm

Code	Size	Packaging	Notes
475132	25 g	Glass bottle	

**Raney's alloy**

Lega Raney • Alliage de Raney • Aleación según Raney

CAS: 12003-78-0

**Classification transport**

ONU: 3089  
 Transport Hazard class: 4.1  
 Packing group III

**Danger**

H228-H260-H317-H351-H372  
 P210-P223-P241-P264-P231+P232-P280

**Raney's alloy > RPE - For analysis****RPE**

Description .....	Greyish metallic powder	Identification .....	Positive	Al .....	~50 %	Ni .....	~50 %
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Code	Size	Packaging	Notes
457675	250 g	Plastic bottle	

**Reagent for lipolysis**

Reattivo unico per lipolisi • Réactif unique pour lipolyse • Reactivo unico para lipolisi

HEU210

**Reagent for lipolysis > RPE - For analysis****RPE**

Density at 20°C .....	1.151 ÷ 1.161	pH at 20°C .....	7.9 ÷ 8.3
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Code	Size	Packaging	Notes
524910	2.5 l	Glass bottle	
524912	5 l	Plastic tank	

**Composition : Reagent for copper : 90.9% HCl 0,7N: 4.55% EDTA(8% w/v): 4.55%****Reagent TAN**

Reattivo TAN • Réactif TAN • Reactivo TAN

**Classification transport**

ONU: 1993  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H315-H319-H361d-H336-H373  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

**Reagent TAN > RS - For analysis****RS**

Water content (K.F) .....	4500 - 5500 mg/Kg	Free acid (as CH3COOH) .....	≤ 5 mg/Kg	Refractive index at 20°C .....	1.433 - 1.437
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Code	Size	Packaging	Notes
PS0327/21	2.5 l	Glass bottle	
PS0327/29	5 l	Plastic tank	
PS0327/39	10 l	Plastic tank	

**Composition : 495 ml propanol-2, 500ml Toluene, 5 ml water**



## Reagent TBN

Reattivo TBN • Réactif TBN • Reactivo TBN

### Classification transport

ONU: 2924  
Transport Hazard class: 3  
Packing group III



### Danger

H226-H332-H314-H411  
P210-P241-P264-P273-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

### Reagent TBN > RS - For analysis

RS

Refractive index at 20°C ..... 1.464 - 1.468

Code	Size	Packaging	Notes
PS0423/21	2.5 l	Glass bottle	
PS0423/29	5 l	Plastic tank	
PS0423/39	10 l	Plastic tank	

**Composition : 333 ml acetic acid, 667 ml chlorobenzene. According to ASTM D2896**



## Red for oils O

Rosso per olio O • Rouge pour l'huile O • Rojo para aceites O

Synonym:

Oil Red O

1-[2,5-Dimethyl-4-(2,5-dimethylphenylazo)phenylazo]-2-naphthol

$C_{26}H_{24}N_4O$

Molecular Weight: 408,5

CAS: 1320-06-5

EEC-N: 215-295-3

### Red for oils O > RPE - For analysis - C.I. 26125

RPE

Description ..... Red brick powder Identification ..... Positive

Code	Size	Packaging	Notes
476961	25 g	Glass bottle	

**Dye for lipoprotein in acetate cellulose capsule**



## Redox solution 468 mV at 25°C

Soluzione Redox 468 mV a 25°C • Solution réductrice 468 mV à 25°C • Solución Redox 468 mV a 25°C

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Warning

H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

### Redox solution 468 mV at 25°C > RS - For electrochemistry

RS

Description ..... Liquido limpido verde-marrone chiaro Identification ..... Positive Redox potential at 25°C ..... 458 ÷ 478 mV

Code	Size	Packaging	Notes
478052	500 ml	Plastic bottle	



## Redox solution 220 mV at 25°C

Soluzione Redox 220 mV a 25°C • Solution réductrice 220 mV à 25°C • Solución Redox 220 mV a 20°C

### Redox solution 220 mV at 25°C > RS - For electrochemistry

RS

Description ..... Yellow clear liquid Identification ..... Positive pH at 25°C ..... 6.95 ÷ 7.05 Redox potential at 25°C ..... 215 ÷ 225 mV

Code	Size	Packaging	Notes
478032	500 ml	Glass bottle	

**Refractive Index standards**

Indice di rifrazione standard • Etalons d'indice de réfraction • Patrones de índice de refracción

**Refractive Index standards > RS - For calibration**

RS

Code	Size	Packaging	Notes
540101	15 ml	Bottle	1.34325 at 20°C
540102	15 ml	Bottle	1.34782 at 20°C
540103	15 ml	Bottle	1.35171 at 20°C
540104	15 ml	Bottle	1.37233 at 20°C
540105	15 ml	Bottle	1.38115 at 20°C
540106	15 ml	Bottle	1.40978 at 20°C
540107	15 ml	Bottle	1.42009 at 20°C
540108	15 ml	Bottle	1.44193 at 20°C

Store between 2 - 8 °C

**Reinecke salt**

Sale di Reinecke • Sel de Reinecke • Sal de Reinecke

Synonym:

Ammonium tetrarhodanodiamminechromate(III)

$\text{NH}_4[\text{Cr}(\text{NH}_3)_2(\text{SCN})_4]\cdot\text{H}_2\text{O}$   
 Molecular Weight: 354,44  
 CAS: 13573-16-5  
 EEC-N: 237-003-3

**Warning**

H302-H312-H332-HEU032  
 P264-P271-P261-P280h-P304+P340-P330

**Reinecke salt > RPE - For analysis - ACS**

RPE

Description ..... Dark red crystalline powder Diluted HCl-ins. matter ..... ≤500 ppm Assay (gravimetric) ..... ≥93.0 %  
 Identification ..... Positive Sens.(Choline chloride) ..... ≥0.5 mg/ml

Code	Size	Packaging	Notes
420672	25 g	Glass bottle	

**Resorcinol**

Resorcina • Résorcine • Resorcina

Synonym:

1,3-Benzenediol

$1,3\text{-(OH)}_2\text{C}_6\text{H}_4$   
 Molecular Weight: 110,11  
 CAS: 108-46-3  
 EEC-N: 203-585-2

**Classification transport**

ONU: 2876  
 Transport Hazard class: 6.1  
 Packing group III

**Warning**

H302-H315-H319-H400  
 P264-P273-P305+P351+P338-P330-P332+P313-  
 P337+P313

**Resorcinol > RPE - For analysis**

RPE

Description ..... White flakes Melting point ..... 109 ÷ 111 °C Assay (GLC) ..... ≥ 97.5 %  
 Identification ..... Positive Residue on ignition ..... ≤ 0.1 %

Code	Size	Packaging	Notes
476565	250 g	Plastic bottle	

**L(+)-Rhamnose**

L(+)-Ramosio • L(+)-Rhamnose • L(+)-Ramosa

Synonym:

6-Deoxy-L-mannose

$\text{C}_8\text{H}_{12}\text{O}_5\cdot\text{H}_2\text{O}$   
 Molecular Weight: 182,17  
 CAS: 10030-85-0  
 EEC-N: 222-793-4

**L(+)-Rhamnose > RPE - For analysis**

RPE

Description ..... White crystalline powder Residue on ignition ..... ≤0.1 % Co ..... ≤5 ppm Zn ..... ≤5 ppm  
 Identification ..... Positive Chloride ..... ≤50 ppm Cu ..... ≤5 ppm Assay ..... ≥99 %  
 Melting point ..... 89 ÷ 91 °C Sulphate ..... ≤50 ppm Fe ..... ≤5 ppm  
 Specific optical rotation ..... +7.5 ÷ +8.5 ° As ..... ≤0.1 ppm Ni ..... ≤5 ppm  
 Loss on drying ..... 9.8 ÷ 10.2 % Cd ..... ≤5 ppm Pb ..... ≤5 ppm

Code	Size	Packaging	Notes
476312	25 g	Glass bottle	

**Rhenium standard solution**

Renio standard soluzione • Rhénium solution standard • Renio, solución patrón

Classification transport

ONU: 3264

**Rhenium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505802	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505805	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Rhenium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507754	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507513	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Rhodium standard solution**

Rodio standard soluzione • Rhodium solution standard • Rodio, solución patrón

Classification transport

ONU: 1760

Transport Hazard class: 8

Packing group III

**Rhodium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505807	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505808	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid
505809	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Rhodium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503861	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503865	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503863	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503867	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Rhodol solution**

Rhodol soluzione • Solution Rhodol • Rhodol solución

H412-HEU208

P273-P501a

**Rhodol solution > RS - For analysis**

RS

Refractive index at 20°C..... 1.342 - 1.346

Code	Size	Packaging	Notes
PS0158/15	1 l	Bottle	
PS0158/29	5 l	Plastic tank	
PS0158/41	10 l	Plastic tank	

**Riboflavine**

Riboflavina • Riboflavine • Riboflavina

Synonym:  
Vitamin B2

$C_{17}H_{20}O_6N_4$   
Molecular Weight: 376,37  
CAS: 83-88-5  
EEC-N: 201-507-1

**Riboflavine > RE - Pure****RE**

Description .....	Yellow-orange powder	Pot. rot. spec. a20°C (c=0.5;NaOH 0.05N) ..... -115 ÷ -135 °	Lumiflavine (TLC).....	≤ 0.025 %
Identification .....	Positive	s.s.	Lumiflavine (spectr.) .....	≤ 0.025 A
Absorbance .....	Conform	Loss on drying .....	Titolo (fluorimetrico).....	98.0 ÷ 102.0 % s.s.
		Sulphated ash.....		≤ 0.1 %

Code	Size	Packaging	Notes
389511	10 g	Glass bottle	

**D(-)Ribose**

D(-)Ribosio • D(-)Ribose • D(-)Ribosa

$C_5H_{10}O_5$   
Molecular Weight: 150,13  
CAS: 50-69-1  
EEC-N: 200-059-4

**D(-)Ribose > RPE - For analysis****RPE**

Description .....	Yellowish powder	Loss on drying .....	≤ 1 %	±-20.8 °	Heavy metals (Pb).....	≤ 10 ppm
Identification .....	Positive	Potere rotat. spec. a 20°C (C=4; H2O)-19.2	Separazione (TLC).....	≥ 99.50 %	Residue on ignition.....	≤ 0.1 %

Code	Size	Packaging	Notes
476608	5 g	Glass bottle	
476609	25 g	Glass bottle	

**Rice starch**

Amido di riso • Amidon de riz • Almidón de arroz

$(C_6H_{10}O_5)_n$   
CAS: 9005-25-8  
EEC-N: 232-679-6

**Rice starch > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.****ERBApharm**

Description .....	White powder	Loss on drying .....	≤ 15.0 %	Zolfo biossido.....	≤ 50 ppm	TYMC .....	≤ 100 CFU/g
Identification .....	Positive	Sulphated ash.....	≤ 0.6 %	Oxidizing substances .....	≤ 0.002 %	Escherichia coli .....	Absent Ph.Eur.
Microscopic test.....	Conform Ph.Eur.	pH (sosp. 20%) .....	5.0 ÷ 8.0	<b>Microbial tests</b>		Salmonella.....	Absent Ph. Eur.
Foreignn cellular elem. ....	Conform Ph.Eur.	Fe .....	≤ 10 ppm	TAMC .....	≤ 1000 CFU/g		

Code	Size	Packaging	Notes
313107	1 kg	Plastic bottle	
313108	2.5 kg	Plastic jar	
313109	5 kg	Plastic jar	
313102	25 kg	Fibre drum	
313104	50 kg	Fibre drum	



## Rosolic acid

Acido p-rosolico • Acide p-rosolique • Acido p-rosólico

Synonym:

4-[Bis(4-hydroxyphenyl)methylene]-2,5-cyclohexa-  
dienone

Aurin

$C_{19}H_{14}O_3$

Molecular Weight: 290,32

CAS: 603-45-2

EEC-N: 210-041-8

### Rosolic acid > RPE - For analysis - C.I. 43800

RPE

Description ..... Red - brown crystalline powder      Loss on drying ..... ≤ 10 %      pH range ..... 6.2 ÷ 8.2  
Identification ..... Positive      Colour change ..... yellow red

Code	Size	Packaging	Notes
409702	25 g	Glass bottle	

**Dye for microscopy (bacteriology). Indicator acid - base (pH 5.0 ÷ 6.8)**



## Rubidium standard solution

Rubidio standard soluzione • Rubidium solution standard • Rubidio, solución patrón

Classification transport

ONU: 3264

Transport Hazard class: 8

Packing group III



### Rubidium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505792	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505795	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Rubidium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503841	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503845	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503843	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503847	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Rubidium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507755	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507514	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



**Ruthenium standard solution**

Rutenio standard soluzione • Ruthénium solution standard • Rutenio, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Danger**H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Ruthenium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505812	100 ml	Plastic bottle	conc. 10 ppm Matrix : Hydrochloric acid
505815	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Ruthenium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503871	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503875	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503873	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503877	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

**Safranine T**

Safranina T • Safranine T • Safranina T

Synonym:  
Basic Red 2

$C_{20}H_{19}ClN_4$   
Molecular Weight: 350,85  
CAS: 477-73-6  
EEC-N: 207-518-8

**Warning**

H302-H319  
P264-P280-P305+P351+P338-P330-P337+P313-  
P301+P312a

**Safranine T > RS - For microscopy - C.I. 50420****RS**

Description ..... Red brown powder Identification ..... Positive

Code	Size	Packaging	Notes
477232	25 g	Glass bottle	

**Dye for bacteriology, cytology****Safranine T hydroalcoholic solution for Gram-Hucker Kit**

Safranina T soluzione idroalcolica per kit Gram-Hucker •  
Safranine T solution hydroalcoolique pour kit de Gram-Hucker •  
Safranina T solución hidroalcohólica para kit Gram-Hucker

Synonym:  
Basic Red 2

$C_{20}H_{19}ClN_4$   
Molecular Weight: 350,85  
CAS: 477-73-6

**Warning**

H319  
P264-P280-P305+P351+P338-P337+P313

**Safranine T hydroalcoholic solution for Gram-Hucker Kit > RS - For bacteriology****RS**

Description ..... Red clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
477241	250 ml	Glass bottle	

CE IVD

**Salicylaldehyde azine**

Salicilaldeide azina • Salicylaldehyde-azine • Salicilaldehido azina

**Salicylaldehyde azine > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611075500	100 ml	Glass bottle	Ref Ph.Eur 1075500

**Salicylic acid**

Acido salicilico • Acide salicylique • Acido salicílico

Synonym:  
2-Hydroxybenzoic acid

$2-HOC_6H_4COOH$   
Molecular Weight: 138,12  
CAS: 69-72-7  
EEC-N: 200-712-3

**Danger**

H302-H315-H318-H335  
P264-P271-P304+P340-P305+P351+P338-P330-  
P332+P313

**Salicylic acid > RPE - For analysis - ACS****RPE**

Description ..... White crystalline powder Melting point ..... 158.0 ÷ 161.0 °C Residue on ignition ..... ≤100 ppm Assay (HPLC) ..... ≥99.0 %  
Identification ..... Positive Chloride ..... ≤10 ppm Sulphate ..... ≤30 ppm  
Ready carbonizable substances ..... Conform Heavy metals (Pb) ..... ≤5 ppm Fe ..... ≤2 ppm

Code	Size	Packaging	Notes
409773	100 g	Plastic bottle	
409777	1 kg	Plastic jar	

**Salicylic acid > ERBApharm - According to pharmacopoeia : FU****ERBApharm**

Description ..... White crystalline powder Melting point ..... 158.0 ÷ 161.0 °C Sulphate ..... ≤200 ppm Residual solvents (Current ICH) ..... Conform  
Identification ..... Positive Loss on drying ..... ≤0.5 % Heavy metals (Pb) ..... ≤20 ppm  
Appearance of solution ..... Conform F.U. Sulphated ash ..... ≤0.1 % Assay (acidimetric) ..... 99.0 ÷ 100.5 % s.s.  
Related substances (HPLC) ..... Conform Chloride ..... ≤100 ppm Origin (BSE/TSE) ..... Synthesis

Code	Size	Packaging	Notes
306381	1 kg	Plastic bottle	

**Salicylic acid > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU****ERBApharm**

Description .....	White crystalline powder	Melting point.....	158.0 ÷ 161.0 ° C	Sulphate .....	≤200 ppm	Residual solvents (Current ICH).....	Conform
Identification .....	Positive	Loss on drying .....	≤0.5 %	Heavy metals (Pb).....	≤20 ppm		
Appearance of solution.....	Conform Ph.Eur.	Sulphated ash.....	≤500 ppm	Assay (acidimetric).....	99.5 ÷ 100.5 % s.s.		
Related compounds.....	Conform PhEur	Chloride.....	≤100 ppm	Origin (BSE/TSE).....	Synthesis		

Code	Size	Packaging	Notes
306377	1 kg	Plastic bottle	

**Salmiac ▶ Ammonium chloride****Samarium standard solution**

Samario standard soluzione • Samarium solution standard • Samario, solución patrón

**Classification transport**

ONU: 3264

Transport Hazard class: 8

Packing group III

**Samarium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505852	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505855	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Samarium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503931	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503935	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503933	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503937	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Samarium standard solution > RS - Standard solution for AAS****RS**

Code	Size	Packaging	Notes
507756	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507515	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Sand of Fontainebleau**

Sabbia di Fontainebleau • Sable de Fontainebleau • Arena de Fontainebleau

Synonym:

Silica

SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 14808-60-7

EEC-N: 238-878-4

**Sand of Fontainebleau > RS - For agroalimentary analysis****RS**

Density at 20°C ..... 2 ÷ 3    Granulometry ..... 180 ÷ 500 micrometer

Code	Size	Packaging	Notes
502064	1 kg	Plastic bottle	
502063	5 kg	Plastic bucket	
502062	25 kg	Plastic bucket	



## Sand purified

Sabbia purificata • Sable purifié • Arena purificada

Synonym:  
Silica

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 14808-60-7  
EEC-N: 238-878-4

### Sand purified > RS - For flash chromatography

RS

Description ..... Hazel granules Identification ..... Positive Particle size (406100) ..... Conform mesh

Code	Size	Packaging	Notes
477153	1 kg	Plastic bottle	



## Saponin

Saponina • Saponine • Saponina

CAS: 8047-15-2  
EEC-N: 232-462-6



### Warning

H335  
P271-P261-P304+P340-P312a-P403+P233-P405

### Saponin > RE - Pure

RE

Description ..... Yellow powder Foaming power ..... Conform Water-insoluble matter ..... ≤0.1 % pH 1% at 25°C ..... 5.0 - 6.5  
Identification ..... Positive Loss on drying ..... ≤5 % Solubility in water ..... Pass test

Code	Size	Packaging	Notes
365755	250 g	Plastic bottle	
365757	1 kg	Plastic bottle	
365758	5 kg	Plastic jar	



## Saybolt Colour Standards

Standard del colore Saybolt • Etalons couleurs Saybolt • Patrones de color Saybolt

### Saybolt Colour Standards > RS - For calibration

RS

Code	Size	Packaging	Notes
540709	100 ml	Glass bottle	-15
540710	100 ml	Glass bottle	+0
540711	100 ml	Glass bottle	+12
540712	100 ml	Glass bottle	+15
540713	100 ml	Glass bottle	+19
540714	100 ml	Glass bottle	+25
540715	100 ml	Glass bottle	+30



## Scandium standard solution

Scandio standard soluzione • Scandium solution standard • Escandio, solución patrón

### Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



### Scandium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505837	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505838	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505839	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Scandium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503901	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503905	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503903	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503907	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Scandium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507757	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507516	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Schiff's reagent for Aldehydes

Schiff reattivo soluzione per Aldeidi • Réactif de Schiff pour Aldéhydes • Schiff reactivo solución para Aldehídos



## Danger

H314-H319

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

## Schiff's reagent for Aldehydes &gt; RS - For analysis

RS

Description ..... Clear colourless or light yellow liquid Identification ..... Positive

Code	Size	Packaging	Notes
477601	500 ml	Glass bottle	



## Schiff's reagent for PAS coloration

Schiff reattivo per colorazione PAS • Réactif de Schiff pour PAS coloration • Schiff reactivo solución para PAS coloración



## Warning

H319

P264-P280-P305+P351+P338-P337+P313

## Schiff's reagent for PAS coloration &gt; RS - For histology

RS

Description ..... Yellow clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
477591	500 ml	Glass bottle	
477592	6 x 500 ml	Glass bottle	

CE IVD



## Sebacic acid

Acido sebacoico • Acide sébacique • Acido sebácico

Synonym:

Decanedioic acid

HOOC(CH<sub>2</sub>)<sub>8</sub>COOH  
 Molecular Weight: 202,25  
 CAS: 111-20-6  
 EEC-N: 203-845-5

## Sebacic acid &gt; RE - Pure

RE

Description ..... White granular powder Melting point ..... 132.5 ÷ 136.5 °C Assay (GLC) ..... ≥94 %  
 Identification ..... Positive Residue on ignition ..... ≤0.1 %

Code	Size	Packaging	Notes
409875	250 g	Plastic bottle	

**Selenic mixture**

Miscela selenica • Mélange séléniqúe • Mezcla selenica

H412  
P273-P501a**Selenic mixture > RS - For nitrogen detection according to Wieninger**

RS

Description ..... Pads or dark gray powder Identification ..... Positive

Code	Size	Packaging	Notes
463421	250 g	Plastic bottle	
463422	1 kg	Plastic bottle	

**Selenium standard solution**

Selenio standard soluzione • Sélénium solution standard • Selenio, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group II**Danger**H290-H314-H335  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Selenium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615002501	100 ml	Plastic bottle	A 1 ppm solution Ref Ph.Eur 5002501
615002500	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5002500

**Selenium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505842	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505845	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505843	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Selenium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503911	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503915	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503913	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503917	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Selenium standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear pinky liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497625	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507758	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507491	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497621	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Selenium standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear pinkish liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
477691		Plastic vial	conc. 1.000 ppm Matrix : Water - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

**Selenium, powder**

Selenio, polvere • Sélénium, poudre • Selenio, polvo

Se  
Molecular Weight: 78,96  
CAS: 7782-49-2  
EEC-N: 231-957-4

**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H331-H373-H413  
P264-P273-P271-P304+P340-P301+P310a-P314

**Selenium, powder > RPE - For analysis****RPE**

Description ..... Blackish powder    Cu ..... ≤ 100 ppm    Pb ..... ≤ 500 ppm    Assay ..... ≥ 99.50 % (Se)  
Identification ..... Positive    Fe ..... ≤ 100 ppm    Te ..... ≤ 500 ppm  
As ..... ≤ 100 ppm    Hg ..... ≤ 100 ppm    Zn ..... ≤ 100 ppm

Code	Size	Packaging	Notes
477702	25 g	Glass bottle	
477707	1 kg	Plastic bottle	

**Selenium dioxide**

Selenio biossido • Sélénium dioxyde • Selenio dióxido

SeO<sub>2</sub>  
Molecular Weight: 110,96  
CAS: 7446-08-4  
EEC-N: 231-194-7

**Classification transport**  
ONU: 3283  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H331-H373-H410  
P264-P273-P271-P304+P340-P301+P310a-P314

**Selenium dioxide > RPE - For analysis****RPE**

Description ..... White-pink crystals    Ca ..... ≤ 50 ppm    Pb ..... ≤ 50 ppm  
Identification ..... Positive    Cu ..... ≤ 50 ppm    Zn ..... ≤ 50 ppm  
Chloride ..... ≤ 500 ppm    Fe ..... ≤ 50 ppm    Assay (oxidimetric) ..... ≥ 98 %

Code	Size	Packaging	Notes
477762	25 g	Glass bottle	

**Selenous acid**

Acido selenioso • Acide sélénieux • Acido selenioso

H<sub>2</sub>SeO<sub>3</sub>  
Molecular Weight: 128,98  
CAS: 7783-00-8  
EEC-N: 231-974-7

**Classification transport**  
ONU: 3283  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H331-H373-H410  
P264-P273-P271-P304+P340-P301+P310a-P314

**Selenous acid > RPE - For analysis****RPE**

Description ..... Whitish powder    Identification ..... Positive    Assay (iodometric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
409964	100 g	Glass bottle	

**Silica gel 60A 6 - 35µ**

Gel di silice 60A 6 - 35µ • Gel de silice 60A 6 - 35µ • Gel de silice 60A 6 - 35µ

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 7631-86-9

**Silica gel 60A 6 - 35µ > RS - For chromatography****RS**

Particle size ..... 6 - 35 µm    Particle size > 10.1 µm ..... ≥ 90 %    Particle size > 6.4 µm ..... ≥ 98 %  
Loss on drying ..... ≤ 6 %    Particle size > 40.3 µm ..... ≤ 10 %

Code	Size	Packaging	Notes
P2010017	1 kg	Plastic bottle	
P2010027	5 kg	Plastic bucket	
P2010044	25 kg	Plastic drum	

**Stir before use**



## Silica gel 60A 20 - 45 $\mu$

Gel di silice 60A 20 - 45 $\mu$  • Gel de silice 60A 20 - 45 $\mu$  • Gel de silice 60A 20 - 45 $\mu$

SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 7631-86-9

### Silica gel 60A 20 - 45 $\mu$ > RS - For chromatography

RS

Particle size .....20 - 45  $\mu$ m    Particle size > 16  $\mu$ m ..... $\geq$  98 %    Particle size > 64.0  $\mu$ m ..... $\leq$  4 %  
Loss on drying ..... $\leq$  6 %    Particle size > 20.2  $\mu$ m ..... $\geq$  90 %

Code	Size	Packaging	Notes
P2200017	1 kg	Plastic bottle	
P2200027	5 kg	Plastic bucket	

*Stir before use*



## Silica gel 60A 35 - 70 $\mu$

Gel di silice 60A 35 - 70 $\mu$  • Gel de silice 60A 35 - 70 $\mu$  • Gel de silice 60A 35 - 70 $\mu$

SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 7631-86-9

### Silica gel 60A 35 - 70 $\mu$ > RS - For Flash chromatography

RS

Description ..... White powder    Nitrate ..... $\leq$ 150 ppm    Ni ..... $\leq$ 5 ppm    > 32.0  $\mu$ m ..... $\geq$  87.0 %  
Identification ..... Positive    Sulphate ..... $\leq$ 700 ppm    Pb ..... $\leq$ 5 ppm    > 80.7  $\mu$ m ..... $\leq$  3.0 %  
pH suspension 10% H<sub>2</sub>O ..... 6.2  $\div$  7.2    Cd ..... $\leq$ 5 ppm    Zn ..... $\leq$ 5 ppm  
Chloride ..... $\leq$ 100 ppm    Cu ..... $\leq$ 5 ppm    **Granulometry**  
Apparent density ..... 380  $\div$  420 g/l    Fe ..... $\leq$ 50 ppm    > 20.2  $\mu$ m ..... $\geq$  99.0 %

Code	Size	Packaging	Notes
453353	1 kg	Plastic bottle	
453355	5 kg	Plastic jar	

### Silica gel 60A 35 - 70 $\mu$ > RS - For chromatography

RS

Particle size ..... 35  $\div$  70  $\mu$ m    Particle size >63  $\mu$ m ..... $\leq$  10 %    pH (5% m/m solution) ..... 6.5  $\div$  7.5  
Particle size <40  $\mu$ m ..... $\leq$  15 %    Loss on drying ..... $\leq$  8.0 %

Code	Size	Packaging	Notes
P2000017	1 kg	Plastic bottle	
P2000026	2 kg	Plastic jar	
P2000027	5 kg	Plastic bucket	
P2000044	25 kg	Plastic drum	

*Stir before use*



## Silica gel 60A 40 - 63 $\mu$

Gel di silice 60A 40 - 63 $\mu$  • Gel de silice 60A 40 - 63 $\mu$  • Gel de silice 60A 40 - 63 $\mu$

SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 7631-86-9

### Silica gel 60A 40 - 63 $\mu$ > RS - For chromatography

RS

Particle size ..... 40  $\div$  63  $\mu$ m    Particle size >63  $\mu$ m ..... $\leq$  10 %    pH (5% m/m solution) ..... 6.5  $\div$  7.5  
Particle size <40  $\mu$ m ..... $\leq$  15 %    Loss on drying ..... $\leq$  6 %

Code	Size	Packaging	Notes
P2050017	1 kg	Plastic bottle	
P2050027	5 kg	Plastic bucket	
P2050044	25 kg	Metal bucket	

*Stir before use*



**Silica gel 60A 70 - 200 $\mu$** Gel di silice 60A 70 - 200 $\mu$  • Gel de silice 60A 70 - 200 $\mu$  • Gel de silice 60A 70 - 200 $\mu$ SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 7631-86-9

**Silica gel 60A 70 - 200 $\mu$  > RS - For chromatography****RS**

Particle size ..... 70  $\div$  200  $\mu$ m    Particle size >200  $\mu$ m .....  $\leq$  10 %    pH (5% m/m solution) ..... 6.5 - 7.5  
 Particle size <60  $\mu$ m .....  $\leq$  10 %    Loss on drying .....  $\leq$  6.0 %

Code	Size	Packaging	Notes
P2100017	1 kg	Plastic bottle	
P2100026	2 kg	Plastic jar	
P2100027	5 kg	Plastic bucket	
P2100044	25 kg	Plastic drum	

**Stir before use****Silica gel 60A 0,06 $\div$ 0,20 mm**Gel di silice 60A 0,06 $\div$ 0,20 mm • Gel de silice 60A 0,06 $\div$ 0,20 mm • Gel de silice 60A 0,06 $\div$ 0,20 mm

Synonym:

Silica

Silicon dioxide

SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 7631-86-9

**Silica gel 60A 0,06 $\div$ 0,20 mm > RS - For chromatography****RS**

Description ..... White powder    pH suspension 10% H<sub>2</sub>O ..... 6.5  $\div$  7.5    > 0.20 mm .....  $\leq$  5 %  
 Identification ..... Positive    < 0.06 mm .....  $\leq$  5 %

Code	Size	Packaging	Notes
453336	500 g	Plastic bottle	
453332	5 kg	Plastic bucket	

**Silica gel granular**

Gel di silice granulare • Gel de silice granulés • Gel de silice granulado

Synonym:

Silica

Silicon dioxide

SiO<sub>2</sub>

Molecular Weight: 60,09

CAS: 7631-86-9

**Silica gel granular > RE - Pure****RE**

Description ..... White granules    Identification ..... Positive    Functionality ..... Conform

Code	Size	Packaging	Notes
453272	10 x 100 g	Carton box	
453273	10 x 250 g	Carton box	
453275	10 x 500 g	Carton box	
453277	1 kg	Plastic bottle	
453279	5 kg	Plastic jar	
453278	10 x 50 g	Carton box	



## Silica gel granular with indicator cobalt free

Gel di silice granulare con indicatore esente da cobalto • Gel de silice granulés avec indicateur exempt de cobalto • Gel de silice granulada sin cobalto

Synonym:  
Silica  
Silicon dioxide

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 7631-86-9

### Silica gel granular with indicator cobalt free > RE - Pure

RE

Description ..... Small bags containing yellowish granules Identification ..... Positive Functionality ..... Conform

Code	Size	Packaging	Notes
453317	1 kg	Plastic bottle	
453319	5 kg	Plastic jar	
453315	25 kg	Plastic bucket	



## Silicon standard solution

Silicio standard soluzione • Silicium solution standard • Silicio, solución patrón

Classification transport  
ONU: 3264  
Transport Hazard class: 8  
Packing group III



Danger  
H314-H319  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Silicon standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505847	100 ml	Plastic bottle	conc. 10 ppm Matrix : Water
505848	100 ml	Plastic bottle	conc. 100 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Silicon standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503921	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503925	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504271	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
504275	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid
503923	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503927	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504273	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
504277	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Silicon standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.005

Code	Size	Packaging	Notes
E497635	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Water
E497631	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Silicon standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
477961		Plastic vial	conc. 1.000 ppm Matrix : Water - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Silicon carbide ► Carborundum, granules



## Silicon dioxide

Silicio biossido • Silicium dioxyde • Silicio dióxido

Synonym:  
Silica

SiO<sub>2</sub>  
Molecular Weight: 60,09  
CAS: 14808-60-7  
EEC-N: 238-878-4



## Warning

H373  
P260-P314-P501a

## Silicon dioxide &gt; RPE - For analysis

RPE

Description ..... White powder      Loss on ignition ..... ≤1 %      Heavy metals (Pb) ..... ≤50 ppm      Sulphate ..... ≤150 ppm  
Identification ..... Positive      Chloride ..... ≤50 ppm      Residue on ignition(HF) ..... ≤0.6 %      Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
422104	100 g	Plastic bottle	
422106	500 g	Plastic bottle	



## Silicotungstic acid

Acido silicotungstico • Acide silicotungstique • Acido silicotúngstico

Synonym:  
Tungstosilicic acid hydrate

SiO<sub>2</sub>.12WO<sub>3</sub>.26H<sub>2</sub>O  
Molecular Weight: 3310,66  
CAS: 12027-43-9



## Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a

## Silicotungstic acid &gt; RPE - For analysis

RPE

Description ..... Yellow crystals      Heavy metals (Pb) ..... ≤20 ppm      Total nitrogen ..... ≤20 ppm  
Identification ..... Positive      Sulphate ..... ≤50 ppm      K ..... ≤10 ppm  
Chloride ..... ≤20 ppm      Fe ..... ≤10 ppm      Loss on ignition ..... ≤15 %

Code	Size	Packaging	Notes
410051	10 g	Glass bottle	
410054	100 g	Glass bottle	



## Silver standard solution

Argento standard soluzione • Argent solution standard • Plata, solución patrón

## Classification transport

ONU: 3264  
Transport Hazard class: 8  
Packing group III



## Danger

H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Silver standard solution &gt; RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002609	100 ml	Glass bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5002600

## Silver standard solution &gt; RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505302	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505305	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505303	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Silver standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503401	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503405	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503403	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503407	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Silver standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507526	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497425	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid
507480	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497421	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Silver standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
423611		Plastic ampoule	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Silver, sheet

Argento, lamina • Argent, lames • Plata, hojas

Ag  
Molecular Weight: 107,87  
CAS: 7440-22-4  
EEC-N: 231-131-3

## Silver, sheet > RPE - For analysis

RPE

Description ..... Lamina Identification ..... Positive Assay ..... >99.9 %

Code	Size	Packaging	Notes
423722	25 g	Bag	0.1 mm
423752	25 g	Bag	0.5 mm
423782	25 g	Bag	1 mm



## Silver, wool

Argento, lana • Argent, laine • Plata, lana

Ag  
Molecular Weight: 107,87  
CAS: 7440-22-4  
EEC-N: 231-131-3

## Silver, wool > RS - For microanalysis

RS

Description ..... Lana Identification ..... Positive Assay ..... >99.9 %

Code	Size	Packaging	Notes
423791	5 g	Glass bottle	



## Silver acetate

Argento acetato • Argent acétate • Plata acetato

Synonym:

Acetic acid silver salt

CH<sub>3</sub>COOAg  
Molecular Weight: 166,92  
CAS: 563-63-3  
EEC-N: 209-254-9



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Silver acetate > RE - Pure

RE

Description ..... White greyish powder    Identification ..... Positive    Umidità (H<sub>2</sub>O) ..... ≤0,5 %    Assay (argentimetric) ..... ≥98 %

Code	Size	Packaging	Notes
319502	25 g	Glass bottle	
319507	250 g	Plastic bottle	



## Silver carbonate

Argento carbonato • Argent carbonate • Plata carbonato

Ag<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 275,75  
CAS: 534-16-7  
EEC-N: 208-590-3



### Danger

H318  
P280-P305+P351+P338-P310a

### Silver carbonate > RE - Pure

RE

Description ..... Yellow-green powder    Identification ..... Positive    Substances not ppt HCl ..... ≤1 %    Assay (argentimetric) ..... 99.5 ÷ 101.5 %

Code	Size	Packaging	Notes
320002	25 g	Glass bottle	
320007	250 g	Glass bottle	



## Silver chloride

Argento cloruro • Argent chlorure • Plata cloruro

AgCl  
Molecular Weight: 143,32  
CAS: 7783-90-6  
EEC-N: 232-033-3

### Silver chloride > RE - Pure

RE

Description ..... Whitish irregular granules    Ca ..... ≤ 60 ppm    Mg ..... ≤ 60 ppm    Pb ..... ≤ 60 ppm  
Identification ..... Positive    Cu ..... ≤ 100 ppm    Mn ..... ≤ 60 ppm  
Al ..... ≤ 60 ppm    Fe ..... ≤ 100 ppm    Ni ..... ≤ 60 ppm

Code	Size	Packaging	Notes
320502	25 g	Glass bottle	
320504	100 g	Glass bottle	



## Silver diethyldithiocarbamate

Argento dietilditiocarbammato • Argent diéthylthiocarbamate • Plata dietilditiocarbammato

Synonym:

DETC

Diethyldi-carbamic acid silver salt

(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NCSSAg  
Molecular Weight: 256,14  
CAS: 1470-61-7  
EEC-N: 216-003-7

### Silver diethyldithiocarbamate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Yellow-greenish powder    Identification ..... Positive    Arsenic sensitivity ..... Conform    Solub. ty in Pyridine ..... Conform

Code	Size	Packaging	Notes
423913	10 g	Glass bottle	



## Silver manganese paper

Carta di manganese d'argento • Papier argent manganèse • Papel de plata de manganeseo

### Silver manganese paper > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611078200	50	Glass bottle	Ref Ph.Eur 1078200



## Silver nitrate

Argento nitrato • Argent nitrate • Plata nitrato

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8  
EEC-N: 231-853-9

**Classification transport**  
ONU: 1493  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H290-H314-H410  
P221-P264-P273-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338

### Silver nitrate > RPE - For analysis - ACS

RPE

Description ..... White crystals      Fee acidity ..... Conform ACS      Sulphate ..... ≤20 ppm      Pb ..... ≤10 ppm  
Identification ..... Positive      Substances not ppt HCl ..... ≤100 ppm      Cu ..... ≤2 ppm      Assay (argentimetric) ..... ≥99.0 %  
Appearance of solution ..... Conform ACS      Chloride ..... ≤5 ppm      Fe ..... ≤2 ppm

Code	Size	Packaging	Notes
423952	25 g	Glass bottle	
423954	100 g	Glass bottle	
423955	250 g	Glass bottle	
423957	1 kg	Plastic bottle	

### Silver nitrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

ERBApharm

Description ..... White crystalline powder      Appearance of solution .... Conform USP-NF      Al,Pb,Cu,Bi ..... Conform Ph.Eur.      Assay (argentimetric) ..... 99.8 ÷ 100.5 %  
Identification ..... Positive      Acidity or alkalinity ..... Conform Ph.Eur.      Foreign salts ..... ≤ 0.3 %

Code	Size	Packaging	Notes
320904	100 g	Glass bottle	
320907	1 kg	Plastic bottle	



## Silver nitrate solution 5%

Argento nitrato soluzione 5% • Argent nitrate solution 5% • Plata nitrato solución 5%

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II



**Danger**  
H302-H315-H318-H411  
P264-P273-P280-P305+P351+P338-P330-  
P332+P313

### Silver nitrate solution 5% > RPE - For analysis

RPE

Description ..... Clear colourless liquid      Identification ..... Positive      Density at 15° C ..... 1.036 ÷ 1.044      Assay ..... 4.0 ÷ 6.0 %

Code	Size	Packaging	Notes
E423982	1 l	Bottle	



## Silver nitrate solution 2.9075%

Argento nitrato soluzione 2.9075% • Argent nitrate solution 2.90756% • Plata nitrato solución 2.90756%

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

H412  
P273-P501a

### Silver nitrate solution 2.9075% > RPE - For analysis

RPE

Description ..... Clear colourless liquid      Identification ..... Positive      Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E424001	1 l	Bottle	

**Silver nitrate 1 mol/l (1N)**

Argento nitrato 1 mol/l (1N) • Argent nitrate 1 mol/l (1N) • Plata nitrato 1 mol/l (1N)

Synonym:  
Nitric acid silver(I) saltAgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II**Danger**  
H301-H314-H411  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Silver nitrate 1 mol/l (1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 399 ..... b

Code	Size	Packaging	Notes
424036000	500 ml	Glass bottle	
424035000	1 l	Glass bottle	

**169.87 g of AgNO<sub>3</sub>. Volumetric solution ready-to-use : 1N. Traceable to NIST****Silver nitrate 0.5 mol/l (0.5N)**

Argento nitrato 0.5 mol/l (0.5N) • Argent nitrate 0.5 mol/l (0.5N) • Plata nitrato 0.5 mol/l (0.5N)

Synonym:  
Nitric acid silver(I) saltAgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II**Danger**  
H302-H315-H318-H411  
P264-P273-P280-P305+P351+P338-P330-  
P332+P313**Silver nitrate 0.5 mol/l (0.5N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 399 ..... b

Code	Size	Packaging	Notes
424051000	1 l	Glass bottle	

**Volumetric solution ready-to-use : 0.5N. Traceable to NIST****Silver nitrate 0.1 mol/l (0.1N)**

Argento nitrato 0.1 mol/l (0.1N) • Argent nitrate 0.1 mol/l (0.1N) • Plata nitrato 0.1 mol/l (0.1N)

Synonym:  
Nitric acid silver(I) saltAgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8H412  
P273-P501a**Silver nitrate 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613005600	1 l	Glass bottle	Ref Ph.Eur 3005600

**Storage: protected from light****Silver nitrate 0.1 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 399 ..... b

Code	Size	Packaging	Notes
424067000	1 l	Plastic bottle	
424062000	5 l	Kubidos	
424063000	5 l	Plastic tank	
424061000	10 l	Kubidos	

**16.987 g of AgNO<sub>3</sub>. Volumetric solution ready-to-use : 0.1N. Traceable to NIST****Silver nitrate 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
424081		Glass ampoule	Volume : 60 ml

**16,987 g of AgNO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Silver nitrate 0.05 mol/l (0.05N)

Argento nitrato 0.05 mol/l (0.05N) • Argent nitrate 0.05 mol/l (0.05N) • Plata nitrato 0.05 mol/l (0.05N)

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

H412  
P273-P501a

### Silver nitrate 0.05 mol/l (0.05N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.04995 - 0.05005 N NIST 399.....b

Code	Size	Packaging	Notes
424101000	1 l	Plastic bottle	

**Volumetric solution ready-to-use : 0.05N. Traceable to NIST**



## Silver nitrate 0.03 mol/l (0.03N)

Argento nitrato 0.03 mol/l (0.03N) • Argent nitrate 0.03 mol/l (0.03N) • Plata nitrato 0.03 mol/l (0.03N)

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

H412  
P273-P501a

### Silver nitrate 0.03 mol/l (0.03N) > RE - Pure

RE

Description ..... Clear colourless liquid Assay ..... 0.029 ÷ 0.031 N

Code	Size	Packaging	Notes
502087	2.5 l	Bottle	



## Silver nitrate 0.025 mol/l (0.025N)

Argento nitrato 0.025 mol/l (0.025N) • Argent nitrate 0.025 mol/l (0.025N) • Plata nitrato 0.025 mol/l (0.025N)

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

H412  
P273-P501a

### Silver nitrate 0.025 mol/l (0.025N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.02495 - 0.02505 N

Code	Size	Packaging	Notes
PS0168/15	1 l		



## Silver nitrate 0.01 mol/l (N/100)

Argento nitrato 0.01 mol/l (N/100) • Argent nitrate 0.01 mol/l (N/100) • Plata nitrato 0.01 mol/l (N/100)

Synonym:  
Nitric acid silver(I) salt

AgNO<sub>3</sub>  
Molecular Weight: 169,87  
CAS: 7761-88-8

H412  
P273-P501a

### Silver nitrate 0.01 mol/l (N/100) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0030/15	1 l		

### Silver nitrate 0.01 mol/l (N/100) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
424161		Glass ampoule	Volume : 60 ml

**1,6987 g of AgNO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**



**Silver nitrate solution**

Argento nitrato soluzione • Argent nitrate solution • Plata nitrato solución

Synonym:  
Nitric acid silver(I) saltAgNO<sub>3</sub>  
Molecular Weight: 169.87  
CAS: 7761-88-8**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group III**Danger**  
H302-H315-H318-H411  
P264-P273-P280-P305+P351+P338-P330-  
P332+P313**Silver nitrate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611078306	100 ml	Glass bottle	Silver nitrate R2 Ref Ph.Eur 1078302
611078307	100 ml	Glass bottle	Silver nitrate R1 Ref Ph.Eur 1078301
611078301	1 l	Glass bottle	Silver nitrate R1 Ref Ph.Eur 1078301
611078302	1 l	Glass bottle	Silver nitrate R2 Ref Ph.Eur 1078302

**Storage: protected from light****Silver nitrate solution > RS - For analysis according to JP**

RS

Code	Size	Packaging	Notes
616001001	1 l	Plastic bottle	Silver nitrate TS

**Storage: protected from light****Silver nitrate solution > RS - For analysis according to USP**

RS

Code	Size	Packaging	Notes
617000201	1 l	Glass bottle	Silver nitrate TS

**Silver oxide**

Argento ossido • Argent oxyde • Plata óxido

Synonym:  
Silver(I) oxideAg<sub>2</sub>O  
Molecular Weight: 231,74  
CAS: 20667-12-3  
EEC-N: 243-957-1**Classification transport**  
ONU: 1479  
Transport Hazard class: 5.1  
Packing group II**Danger**  
H271-H318-H410  
P221-P273-P283-P210a-P280a-P305+P351+P338**Silver oxide > RPE - For analysis**

RPE

Description .....	Grey powder	Ca .....	≤ 50 ppm	Fe .....	≤ 150 ppm	Pb .....	≤ 50 ppm
Identification .....	Positive	Cd .....	≤ 50 ppm	Mg .....	≤ 50 ppm	Zn .....	≤ 50 ppm
Loss on drying .....	≤ 0.5 %	Cu .....	≤ 0.08 %	Ni .....	≤ 50 ppm	Assay (argentimetric) .....	≥ 99 %

Code	Size	Packaging	Notes
424181	25 g	Glass bottle	
424182	250 g	Plastic bottle	

**Silver sulfate**

Argento solfato • Argent sulfate • Plata sulfato

Synonym:  
Sulfuric acid disilver(I) saltAg<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 311,79  
CAS: 10294-26-5  
EEC-N: 233-653-7**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III**Danger**  
H318-H410  
P273-P280i-P305+P351+P338-P391-P310a-P501a**Silver sulfate > RPE - For analysis**

RPE

Description .....	Polvere biancast	Umidità (H <sub>2</sub> O) .....	≤ 0.5 %	Cu .....	≤ 500 ppm	Fe .....	≤ 150 ppm
Identification .....	Positive	Ca .....	≤ 50 ppm	Ni .....	≤ 50 ppm	Assay (argentimetric) .....	≥ 98.5 %

Code	Size	Packaging	Notes
424201	25 g	Glass bottle	
424203	100 g	Glass bottle	



## Silver sulfate solution 0.7% in sulfuric acid

Argento solfato soluzione 0.7% in acido solforico • Argent sulfate solution 0.7% dans l'acide sulfurique • Plata sulfato solución 0.7% en acido sulfúrico

Synonym:  
Sulfuric acid disilver(I) salt

Ag<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 311,79  
CAS: 10294-26-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Silver sulfate solution 0.7% in sulfuric acid > RS - For environmental analysis (COD determination)

RS

Description ..... Clear colourless liquid Identification ..... Positive Assay ..... 0.685 ÷ 0.715 %

Code	Size	Packaging	Notes
424191	1 l	Glass bottle	
424192	2.5 l	Glass bottle	



## Soap solution in ethanol

Sapone soluzione in alcole etilico • Savon en solution dans l'éthanol • Jabón solución en alcohol etílico

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group II



**Warning**  
H226-H315-H319  
P210-P241-P264-P303+P361+P353-P305+P351+P338-P403+P235

### Soap solution in ethanol > RS - For hydrotimetry according to Boutron-Boudet

RS

Description ..... Yellowish clear liquid Identification ..... Positive

Code	Size	Packaging	Notes
E477507	1 l	Glass bottle	



## Soda lime

Calce sodata • Chaux sodée • Cal sodada

CAS: 8006-28-8



**Warning**  
H315-H319  
P264-P280-P305+P351+P338-P332+P313-P337+P313-P302+P352a

### Soda lime > RS - For anesthesia and basal metabolism test

RS

Description ..... White granules Water ..... 12.0 ÷ 19.0 % Activity ..... ≥ 19.0 % Umidità assorbita ..... ≤ 7.5 %  
Identification ..... Positive Alkalinity (NaOH)..... ≤ 3.5 % Hardness ..... ≥ 75.0 % Diameter..... 2.5 ÷ 5.0 mm

Code	Size	Packaging	Notes
432873	1 kg	Plastic bottle	
432874	4,5 kg	Plastic tank	

With ethyl violet indicator

### Soda lime > RS - For aqualungs

RS

Description ..... White granules Hardness ..... ≥ 75 % > 4.75 mm..... ≤ 7.0 %  
Identification ..... Positive Activity ..... ≥ 60 min. > 0.6 mm..... ≤ 15.0 %  
Water ..... 16 ÷ 20 % > 5.60 mm..... ≤ 1.0 % < 0.6 mm..... ≤ 1.0 %

Code	Size	Packaging	Notes
432891	1 kg	Plastic bottle	
432893	5 kg	Plastic bottle	

With indicator ethyl violet

### Soda lime > RS - For CO<sub>2</sub> absorption

RS

Description ..... Granuli white Diameter..... Conform > 1.40 mm..... Balance  
Identification ..... Positive > 2.80 mm..... < 1.0 % > 0.60 mm..... < 20.0 %  
CO<sub>2</sub> Absorption..... > 19 % > 2.00 mm..... < 30.0 % < 0.60 mm..... < 1.0 %

Code	Size	Packaging	Notes
432861	1 kg	Plastic bottle	
432862	5 kg	Plastic jar	

With indicator manganese salt

**Soda lime > RS - For microanalysis**

RS

Description ..... White granules Water ..... 16 ÷ 19 % > 4.75 mm ..... ≤7.0 %  
 Identification ..... Positive Hardness ..... ≥80 % < 0.6 mm ..... ≤1.0 %

Code	Size	Packaging	Notes
432851	500 g	Plastic bottle	

**With indicator ethyl violet****Soda lime > RPE - For analysis**

RPE

Description ..... White granules Hardness ..... ≥ 75 % > 8.0 mm ..... Nil  
 Identification ..... Positive Activity ..... ≥ 19.0 % > 4.75 mm ..... ≤ 7.0 %  
 Water ..... 12 ÷ 19 % Alcalinity (NaOH) ..... ≤ 3.5 % < 0.425 mm ..... ≤ 2.0 %

Code	Size	Packaging	Notes
432801	1 kg	Plastic bottle	
432802	2.5 kg	Plastic jar	
432803	25 kg	Plastic bucket	

**With ethyl purple indicator. Diameter 2,5 - 6 mm****Sodium standard solution**

Sodio standard soluzione • Sodium solution standard • Sodio+D2272

**Danger**

H314

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Sodium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615002701	100 ml	Plastic bottle	A 50 ppm solution : to dilute according to Ref Ph.Eur 5002701
615002709	100 ml	Plastic bottle	A 200 ppm solution : to dilute according to Ref Ph.Eur 5002700
615005700	1 l	Plastic bottle	A 1000 ppm solution Ref Ph.Eur 5005700

**Sodium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505732	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505735	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505733	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Sodium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503741	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503745	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503743	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503747	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Sodium standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497645	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507759	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503749	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497641	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Sodium standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
478101		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**

## Sodium standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503301	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503303	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Sodium, metallic

Sodio, metallico • Sodium, métal • Sodio, metal

Na  
Molecular Weight: 22,99  
CAS: 7440-23-5  
EEC-N: 231-132-9

**Classification transport**  
ONU: 1428  
Transport Hazard class: 4.3  
Packing group I



**Danger**  
H260-H314-HEU014  
P223-P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Sodium, metallic > RPE - For analysis

RPE

Description ..... Irregular silvery pieces Ca ..... ≤ 550 ppm Assay ..... ≥ 99.8 % (Na)  
Identification ..... Positive K ..... ≤ 300 ppm

Code	Size	Packaging	Notes
478081	500 g	Metal bucket	



## Sodium acetate anhydrous

Sodio acetato anidro • Sodium acetate anhydrous • Sodio acetato anhidro

Synonym:  
Acetic acid sodium salt anhydrous

CH<sub>3</sub>COONa  
Molecular Weight: 82,035  
CAS: 127-09-3  
EEC-N: 204-823-8

## Sodium acetate anhydrous > RPE - For analysis

RPE

Description ..... White hygroscopic powder Heavy metals (Pb) ..... ≤ 10 ppm Ca ..... ≤ 100 ppm Ni ..... ≤ 2 ppm  
Identification ..... Positive Nitrate ..... ≤ 10 ppm Cu ..... ≤ 2 ppm Zn ..... ≤ 2 ppm  
pH sol. 5% at 25° C ..... 7.5 ÷ 9.2 Subst. reducing KMnO<sub>4</sub> ..... ≤ 50 ppm (1h) Fe ..... ≤ 3 ppm Assay (non-aqueous medium) .99.0 ÷ 101.0  
Loss on drying ..... ≤ 1.0 % Sulphate ..... ≤ 100 ppm K ..... ≤ 0.1 % % (s.s.)  
Ca, Mg and ppt by NH<sub>4</sub>OH ..... ≤ 50 ppm Al ..... ≤ 5 ppm Mg ..... ≤ 5 ppm  
Chloride ..... ≤ 350 ppm As ..... ≤ 1 ppm Mn ..... ≤ 5 ppm

Code	Size	Packaging	Notes
478165	100 g	Plastic bottle	
478166	500 g	Plastic bottle	
478167	1 kg	Plastic bottle	
478163	25 kg	Fibre drum	

## Sodium acetate anhydrous > ERBapharm - According to pharmacopoeia : USP

ERBapharm

Description ..... White crystalline powder pH ..... 7.5 ÷ 9.2 USP-NF Heavy metals (Pb) ..... ≤ 10 ppm % s.s.  
Identification ..... Positive Loss on drying ..... ≤ 1.0 % Sulphate ..... ≤ 50 ppm Origin (BSE/TSE) ..... Synthesis  
Calcium + Magnesium ..... Conform USP-NF Water not sol. matter ..... ≤ 500 ppm Al ..... ≤ 0.2 ppm  
K ..... Conform USP-NF Chloride ..... ≤ 350 ppm Assay (non-aqueous medium) .99.0 ÷ 101.0

Code	Size	Packaging	Notes
366377	1 kg	Plastic bottle	
366372	5 kg	Plastic jar	
366371	25 kg	Plastic bucket	

**Sodium acetate trihydrate**

Sodio acetato triidrato • Sodium acétate trihydraté • Sodio acetato trihidrato

Synonym:

*Acetic acid sodium salt trihydrate*

CH<sub>3</sub>COONa.3H<sub>2</sub>O  
 Molecular Weight: 136,08  
 CAS: 6131-90-4  
 EEC-N: 204-823-8

**Sodium acetate trihydrate > RPE - For analysis - ISO - ACS - Reag.USP****RPE**

Description ..... White crystals  
 Identification ..... Positive  
 pH sol. 5% at 25° C ..... 7.5 ÷ 9.2  
 Subst. reducing KMnO<sub>4</sub> ..... Conform

Chloride ..... ≤10 ppm  
 Phosphate ..... ≤5 ppm  
 Water-insoluble matter ..... ≤50 ppm  
 Heavy metals (Pb) ..... ≤5 ppm

Sulphate ..... ≤20 ppm  
 Fe ..... ≤5 ppm  
 K ..... ≤50 ppm  
 Assay (non-aqueous medium) .99.0 ÷ 101.0

%  
 Ca ..... ≤50 ppm  
 Mg ..... ≤20 ppm

Code	Size	Packaging	Notes
478135	100 g	Plastic bottle	
478136	500 g	Plastic bottle	
478137	1 kg	Plastic bottle	
478139	5 kg	Plastic jar	
478132	25 kg	Plastic bucket	

**Sodium acetate trihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP****ERBApharm**

Description ..... White or almost white,cryst. powder or colourless cryst.  
 Identification ..... Positive  
 Appearance of solution ..... Conform Ph.Eur.  
 Reducing substances ..... Conform Ph.Eur.

K ..... Conform USP-NF  
 pH sol. 5% at 25° C ..... 7.5 ÷ 9.0  
 Loss on drying 130° C ..... 39.0 ÷ 40.5 %  
 Chloride ..... ≤200 ppm

Heavy metals (Pb) ..... ≤10 ppm  
 Sulphate ..... ≤50 ppm  
 Not soluble matter ..... ≤500 ppm  
 As ..... ≤2 ppm

Calcium + Magnesium ..... ≤50 ppm  
 Fe ..... ≤10 ppm  
 Al ..... ≤0.2 ppm  
 Assay (non-aqueous medium) .99.0 ÷ 101.0 % (s.s.)

Code	Size	Packaging	Notes
366207	1 kg	Plastic bottle	
366209	5 kg	Plastic jar	
366205	25 kg	Plastic bucket	

**Sodium alginate**

Sodio alginato • Sodium alginate • Sodio alginato

Synonym:

*Algin**Alginic acid*

(C<sub>6</sub>H<sub>7</sub>O<sub>6</sub>Na)<sub>n</sub>  
 Molecular Weight: >200000  
 CAS: 9005-38-3

**Sodium alginate > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.****ERBApharm**

Description ..... Beige powder  
 Identification ..... Positive  
 Appearance of solution ..... Conform Ph.Eur.  
 Loss on drying ..... ≤15.0 %

Sulphated ash ..... 30.0 ÷ 36.0 %  
 Chloride ..... ≤1.0 %  
 Heavy metals (Pb) ..... ≤20 ppm  
 Ca ..... ≤1.50 %

**Microbial tests**  
 TAMC ..... ≤1000 CFU/g  
 TYMC ..... ≤100 CFU/g  
 Escherichia coli ..... Absent

Salmonella ..... Absent

Code	Size	Packaging	Notes
366551	100 g	Plastic bottle	
366552	1 kg	Plastic bottle	
366553	5 kg	Plastic jar	



## Sodium aluminate

Sodio alluminato • Sodium aluminate • Sodio aluminato

NaAlO<sub>2</sub>  
Molecular Weight: 81,97  
CAS: 11138-49-1  
EEC-N: 234-391-6

**Classification transport**  
ONU: 2812  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Sodium aluminate > RE - Pure

RE

Description ..... White-grey powder      Water-insoluble matter ..... ≤0.2 %      Assay ..... 53 ÷ 55 % (Al<sub>2</sub>O<sub>3</sub>)  
Identification ..... Positive      Fe ..... ≤200 ppm

Code	Size	Packaging	Notes
478237	1 kg	Plastic bottle	
478232	25 kg	Plastic bucket	



## Sodium ammonium hydrogen phosphate

Sodio ammonio idrogeno fosfato • Sodium ammonium hydrogénofosphate • Sodio y amonio hidrógeno fosfato

Synonym:  
*Ammonium sodium phosphate dibasic tetrahydrate*  
*Ammonium sodium hydrogen phosphate*

NaNH<sub>4</sub>HPO<sub>4</sub>·4H<sub>2</sub>O  
Molecular Weight: 209,07  
CAS: 13011-54-6  
EEC-N: 235-860-8

### Sodium ammonium hydrogen phosphate > RPE - For analysis

RPE

Description ..... White crystalline powder      Fluoride ..... ≤10 ppm      As ..... ≤0.5 ppm      Mg ..... ≤20 ppm  
Identification ..... Positive      Water-insoluble matter ..... ≤50 ppm      Ca ..... ≤50 ppm      Ni ..... ≤25 ppm  
pH sol. 5% at 25° C ..... 7.5 ÷ 8.5      Heavy metals (Pb) ..... ≤5 ppm      Cu ..... ≤25 ppm      Zn ..... ≤25 ppm  
Carbonate ..... ≤10 ppm      Nitrate ..... ≤10 ppm      Fe ..... ≤5 ppm      Assay (acidimetric) ..... ≥99.5 %  
Chloride ..... ≤10 ppm      Sulphate ..... ≤50 ppm      K ..... ≤300 ppm

Code	Size	Packaging	Notes
478357	1 kg	Plastic bottle	



## Sodium L-ascorbate

Sodio L-ascorbato • Sodium L-ascorbate • Sodio L-ascorbato

Synonym:  
*L(+)-Ascorbic acid sodium salt*  
*Vitamin C sodium salt*

C<sub>6</sub>H<sub>7</sub>O<sub>6</sub>Na  
Molecular Weight: 198,11  
CAS: 134-03-2  
EEC-N: 205-126-1

### Sodium L-ascorbate > RE - Pure

RE

Description ..... White or yellow crystalline powder      Specific optical rotation ..... +103 ÷ +106 °      Water ..... ≤0.3 %      Pb ..... ≤10 ppm  
Identification ..... Positive      Heavy metals (Pb) ..... ≤20 ppm      As ..... ≤3 ppm      Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
366681	100 g	Plastic bottle	
366684	1 kg	Plastic bottle	



## Sodium arsenite 0.1 mol/l (0.2N)

Sodio arsenito 0.1 mol/l (0.2N) • Sodium arsenite 0.1 mol/l (0.2N) • Sodio arsenito 0.1 mol/l (0.2N)

Synonym:  
*Sodium (meta)arsenite*  
*Sodium dioxoarsenate*

AsNaO<sub>2</sub>  
Molecular Weight: 129,91  
CAS: 7784-46-5

**Classification transport**  
ONU: 1686  
Transport Hazard class: 6.1  
Packing group III



**Danger**  
H302-H350-H411-HA26  
P264-P273-P280-P308+P313-P330-P301+P312a

### Sodium arsenite 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613005800	1 l	Plastic bottle	Ref Ph.Eur 3005800



### Sodium arsenite 0.05 mol/l (0.1N)

Sodio arsenito 0.05 mol/l (0.1N) • Sodium arsenite 0.05 mol/l (0.1N) • Sodio arsenito 0.05 mol/l (0.1N)

Synonym:  
Sodium (meta)arsenite  
Sodium dioxoarsenate

AsNaO<sub>2</sub>  
Molecular Weight: 129,91  
CAS: 7784-46-5

**Classification transport**  
ONU: 1686  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H302-H319-H350-H411-HA26  
P264-P273-P280-P305+P351+P338-  
P308+P313-P330

#### Sodium arsenite 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
402381		Glass ampoule	Volume : 60 ml

**6,494 g NaAsO<sub>2</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



### Sodium azide

Sodio azide • Sodium azide • Sodio azida

NaN<sub>3</sub>  
Molecular Weight: 65,01  
CAS: 26628-22-8  
EEC-N: 247-852-1

**Classification transport**  
ONU: 1687  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H300-H410-HEU032  
P264-P273-P270-P301+P310a-P330-P321

#### Sodium azide > RE - Pure

**RE**

Description ..... White crystalline powder Loss on drying ..... ≤ 0.5 % pH solution 5% ..... ≥ 9 Sodium carbonate ..... ≤ 0.15 %  
Identification ..... Positive Water-insoluble matter ..... ≤ 500 ppm Heavy metals (Pb)..... ≤ 20 ppm Assay (oxidimetric) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
478484	25 g	Glass bottle	
478482	250 g	Glass bottle	
478481	2.5 kg	Plastic bottle	



### Sodium benzoate

Sodio benzoato • Sodium benzoate • Sodio benzoato

Synonym:  
Benzoic acid sodium salt

C<sub>6</sub>H<sub>5</sub>COONa  
Molecular Weight: 144,11  
CAS: 532-32-1  
EEC-N: 208-534-8



**Warning**  
H319  
P264-P280i-P305+P351+P338-P337+P313

#### Sodium benzoate > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.

**ERBApharm**

Description ..... White crystalline powder Acidity or alkalinity.....Conform Ph.Eur. Halog. comp. ionized Cl .....≤200 ppm Assay (non-aqueous medium) .99.0 ÷ 100.5  
Identification ..... Positive Water (K.F.)..... ≤1.5 % Halog. comp. total Cl .....≤300 ppm % s.s.  
Appearance of solution.....Conform Ph.Eur. Loss on drying ..... ≤2.0 % Heavy metals (Pb).....≤10 ppm

Code	Size	Packaging	Notes
366757	1 kg	Plastic bottle	
366759	5 kg	Plastic bucket	
366754	25 kg	Fibre drum	



## Sodium bicarbonate

Sodio bicarbonato • Sodium bicarbonate • Sodio bicarbonato

Synonym:  
Sodium hydrogen carbonate

NaHCO<sub>3</sub>  
Molecular Weight: 84,01  
CAS: 144-55-8  
EEC-N: 205-633-8

### Sodium bicarbonate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description .....	White crystalline powder	Phosphate .....	≤10 ppm	Assay (alkalimetric).....	99.7 ÷ 100.3 % s.s.	Carbonate.....	Conform
Identification .....	Positive	Total sulphur .....	≤30 ppm	Ca .....	≤100 ppm	Loss on drying .....	≤0.25 %
Water-insoluble matter .....	≤150 ppm	Heavy metals (Pb).....	≤5 ppm	Mg .....	≤50 ppm	Sulphate .....	≤150 ppm
Ammonium .....	≤5 ppm	Fe .....	≤10 ppm	As .....	≤2 ppm	Appearance of solution .....	Conform
Chloride.....	≤30 ppm	K.....	≤50 ppm				

Code	Size	Packaging	Notes
478535	100 g	Plastic bottle	
478536	500 g	Plastic bottle	
478537	1 kg	Plastic bottle	
478531	5 kg	Plastic jar	
478532	25 kg	Plastic bucket	

### Sodium bicarbonate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB

ERBApharm

Description .....	White crystalline powder	Not soluble matter .....	Conform USP-NF	Heavy metals (Pb).....	≤5 ppm	Ca.....	≤100 ppm
Identification .....	Positive	Loss (silica gel) .....	≤0.25 %	Sulphate .....	≤150 ppm	Fe .....	≤20 ppm
Appearance of solution .....	Conform Ph.Eur.	Ammonium .....	≤20 ppm	Sulfur compounds .....	≤150 ppm	Assay (alkalimetric).....	99.0 ÷ 100.5 % s.s.
Carbonate.....	Conform Ph.Eur.	Chloride.....	≤150 ppm	As .....	≤2 ppm	Normal carbonate.....	Conform

Code	Size	Packaging	Notes
366908	1 kg	Plastic bottle	
366909	5 kg	Plastic jar	
366902	25 kg	Plastic bucket	
366904	50 kg	Plastic bucket	



## Sodium bisulfate monohydrate

Sodio bisolfato monoidrato • Sodium bisulfate monohydraté • Sodio bisulfato monohidrato

Synonym:  
Sodium hydrogen sulfate monohydrate

NaHSO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight: 138,07  
CAS: 10034-88-5  
EEC-N: 231-665-7

**Classification transport**  
ONU: 3260  
Transport Hazard class: 8  
Packing group III



**Danger**  
H318  
P280i-P305+P351+P338-P310a

### Sodium bisulfate monohydrate > RPE - For analysis

RPE

Description .....	White crystals	Chloride.....	≤ 20 ppm	Fe .....	≤ 50 ppm
Identification .....	Positive	Heavy metals (Pb).....	≤ 50 ppm	Assay .....	≥ 96.0 %

Code	Size	Packaging	Notes
478675	100 g	Plastic bottle	
478676	500 g	Plastic bottle	
478677	1 kg	Plastic bottle	
478673	25 kg	Drum	





## Sodium borohydride

Sodio boroidruro • Sodium borohydruce • Sodio boro hidruro

Synonym:  
Sodium tetrahydroborate

NaBH <sub>4</sub>	<b>Classification transport</b>
Molecular Weight: 37,83	ONU: 1426
CAS: 16940-66-2	Transport Hazard class: 4.3
	Packing group I

### Sodium borohydride > RE - Pure - Powder

RE

Description ..... White powder Identification ..... Positive Assay (oxidimetric) ..... ≥ 95 %

Code	Size	Packaging	Notes
478953	50 g	Metallic can	
478955	250 g	Metallic can	
478957	1 kg	Metal bucket	

### Sodium borohydride > RE - Pure - Pearls

RE

Description ..... White pearls Identification ..... Positive Assay ..... ≥ 98.0 %

Code	Size	Packaging	Notes
478964	100 g	Metallic can	



## Sodium bromide

Sodio bromuro • Sodium bromure • Sodio bromuro

NaBr	<b>Warning</b> H315-H319-H335 P264-P271-P280-P304+P340-P305+P351+P338-P312a
Molecular Weight: 102,9	
CAS: 7647-15-6	
EEC-N: 231-599-9	

### Sodium bromide > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder Chloride ..... ≤ 0.2 % Ba ..... ≤ 20 ppm Mg ..... ≤ 10 ppm  
 Identification ..... Positive Water-insoluble matter ..... ≤ 50 ppm Ca ..... ≤ 20 ppm Assay (argentimetric) ..... ≥ 99.0 %  
 pH sol. 5% at 25° C ..... 5.0 ÷ 8.8 Heavy metals (Pb) ..... ≤ 5 ppm Fe ..... ≤ 5 ppm  
 Bromate ..... ≤ 10 ppm Sulphate ..... ≤ 20 ppm K ..... ≤ 0.1 %

Code	Size	Packaging	Notes
479055	250 g	Plastic bottle	
479057	1 kg	Plastic bottle	

### Sodium bromide > ERBApharm - According to pharmacopoeia : Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder Bromate ..... Conform Ph.Eur. Mg,alkal.earth met.(Ca) ..... ≤200 ppm Assay (argentimetric) ..98.0 ÷ 100.5 % s.s.  
 Identification ..... Positive Iodide ..... Conform Ph.Eur. Heavy metals (Pb)..... ≤10 ppm  
 Appearance of solution ..... Conform Ph.Eur. Loss on drying ..... ≤3.0 % Sulphate ..... ≤100 ppm  
 Acidity or alkalinity..... Conform Ph.Eur. Chloride..... ≤0.6 % Fe ..... ≤20 ppm

Code	Size	Packaging	Notes
367357	1 kg	Plastic bottle	
367359	5 kg	Plastic jar	

## Sodium 1-butanesulfonate ► 1-Butanesulfonic acid sodium salt



## Sodium carbonate anhydrous

Sodio carbonato anidro • Sodium carbonate anhydre • Sodio carbonato anhidro

Synonym:  
Calcined soda  
Carbonic acid disodium salt

Na<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 105,99  
CAS: 497-19-8  
EEC-N: 207-838-8



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Sodium carbonate anhydrous > RS - Standard for volumetry

RS

Description ..... White crystals Identification ..... Positive Assay ..... ≥99.7 %

Code	Size	Packaging	Notes
479331	50 g	Glass bottle	

### Sodium carbonate anhydrous > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description ..... White crystalline powder Phosphate ..... ≤ 10 ppm Total sulphur ..... ≤ 30 ppm Ca ..... ≤ 300 ppm  
 Identification ..... Positive Water-insoluble matter ..... ≤ 100 ppm Fe ..... ≤ 5 ppm Mg ..... ≤ 50 ppm  
 Loss on drying (285°C) ..... ≤ 1.0 % Heavy metals (Pb) ..... ≤ 5 ppm K ..... ≤ 50 ppm  
 Chloride ..... ≤ 10 ppm Silicate ..... ≤ 50 ppm Assay (alkalimetric) ..... ≥ 99.5 % s.s.

Code	Size	Packaging	Notes
479305	100 g	Plastic bottle	
479306	500 g	Plastic bottle	
479307	1 kg	Plastic bottle	
479301	5 kg	Plastic jar	
479302	25 kg	Drum	

### Sodium carbonate anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF

ERBApharm

Description ..... White crystalline powder Appearance of solution ..... Conform Ph.Eur. Sulphate ..... ≤ 250 ppm Heavy metals (Pb) ..... ≤ 10 ppm  
 Identification ..... Positive Alkali hydroxides and bicarbonates Conform Ph.Eur. As ..... ≤ 5 ppm Residue solvents ..... Conform USP-NF  
 Loss on drying ..... ≤ 0.5 % Chloride ..... ≤ 125 ppm Fe ..... ≤ 50 ppm Assay (acidimetric) ..... 99.5 ÷ 100.5 %s.s.

Code	Size	Packaging	Notes
367707	1 kg	Plastic bottle	
367703	5 kg	Plastic jar	
367704	50 kg	Fibre drum	



## Sodium carbonate decahydrate

Sodio carbonato decaidrato • Sodium carbonate décahydraté • Sodio carbonato decahidrato

Na<sub>2</sub>CO<sub>3</sub>·10H<sub>2</sub>O  
Molecular Weight: 286,14  
CAS: 6132-02-1  
EEC-N: 207-838-8



### Warning

H319  
P264-P280i-P305+P351+P338-P337+P313

### Sodium carbonate decahydrate > RPE - For analysis - ISO

RPE

Description ..... White crystals Phosphate ..... ≤ 5 ppm Total sulphur ..... ≤ 10 ppm K ..... ≤ 50 ppm  
 Identification ..... Positive Water-insoluble matter ..... ≤ 25 ppm Al ..... ≤ 5 ppm Mg ..... ≤ 2 ppm  
 Free alkalis (NaOH) ..... ≤ 400 ppm Heavy metals (Pb) ..... ≤ 3 ppm As ..... ≤ 0.1 ppm Ni ..... ≤ 2 ppm  
 Total nitrogen ..... ≤ 5 ppm Subst. ppt by NH<sub>4</sub>OH ..... ≤ 100 ppm Ca ..... ≤ 20 ppm Pb ..... ≤ 2 ppm  
 Bicarbonate ..... ≤ 0.2 % Reducing iodine ..... ≤ 50 ppm Cu ..... ≤ 2 ppm Zn ..... ≤ 2 ppm  
 Chloride ..... ≤ 5 ppm Silicate ..... ≤ 20 ppm Fe ..... ≤ 2 ppm Assay (alkalimetric) ..... ≥ 99.5 %

Code	Size	Packaging	Notes
479125	100 g	Plastic bottle	
479126	500 g	Plastic bottle	
479127	1 kg	Plastic bottle	
479121	5 kg	Plastic jar	
479122	25 kg	Plastic bucket	

**Sodium carbonate decahydrate** > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder Alc. hydroxides + bicar. .... Conform Ph.Eur. Sulphate ..... ≤ 100 ppm Assay (alkalimetric) 36.7 ÷ 40.0 % Na<sub>2</sub>CO<sub>3</sub>  
 Identification ..... Positive Chloride ..... ≤ 50 ppm As ..... ≤ 2 ppm  
 Appearance of solution ..... Conform Ph.Eur. Heavy metals (Pb) ..... ≤ 20 ppm Fe ..... ≤ 20 ppm

Code	Size	Packaging	Notes
367608	1 kg	Plastic bottle	
367609	5 kg	Plastic jar	
367601	25 kg	Plastic bucket	
367604	50 kg	Fibre drum	

**Sodium carbonate monohydrate**

Sodio carbonato monoidrato • Sodium carbonate monohydraté • Sodio carbonato monohidratato

 Synonym:  
 Carbonic acid disodium salt

Na<sub>2</sub>CO<sub>3</sub>·H<sub>2</sub>O  
 Molecular Weight: 124  
 CAS: 5968-11-6  
 EEC-N: 207-838-8

**Warning**

H319  
 P264-P280i-P305+P351+P338-P337+P313

**Sodium carbonate monohydrate** > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000500	50 g	Plastic bottle	Ref Ph.Eur 2000500

**Sodium carbonate monohydrate** > RPE - For analysis - ACS

RPE

Description ..... White, granular crystals Chloride ..... ≤ 10 ppm Mg ..... ≤ 50 ppm K ..... ≤ 50 ppm  
 Identification ..... Positive Phosphate ..... ≤ 5 ppm Silicate ..... ≤ 50 ppm Assay (alkalimetric) ..... ≥ 99.5 %  
 Loss on drying ..... 13.0 ÷ 15.0 % Water-insoluble matter ..... ≤ 100 ppm Total sulphur ..... ≤ 40 ppm  
 Ca ..... ≤ 0.03 % Heavy metals (Pb) ..... ≤ 5 ppm Fe ..... ≤ 5 ppm

Code	Size	Packaging	Notes
479255	100 g	Plastic bottle	
479256	500 g	Plastic bottle	
479257	1 kg	Plastic bottle	

**Sodium carbonate monohydrate** > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.-Ph.Franc.

ERBApharm

Description ..... White crystalline powder Alkali hydroxides and bicarbonates Conform Ph.Eur. Sulphate ..... ≤ 250 ppm Fe ..... ≤ 50 ppm  
 Identification ..... Positive Ph.Eur. Heavy metals (Pb) ..... ≤ 50 ppm Assay (alkalimetric) ..... 83.0 ÷ 87.5 %  
 Appearance of solution ..... Conform Ph.Eur. Chloride ..... ≤ 125 ppm As ..... ≤ 5 ppm

Code	Size	Packaging	Notes
367691	1 kg	Plastic bottle	
367692	5 kg	Plastic jar	
367693	25 kg	Plastic bucket	
367694	50 kg	Plastic bucket	

**Sodium carbonate solution 20%**

Sodio carbonato soluzione 20% • Sodium carbonate solution 20% • Sodio carbonato solución 20%

 Synonym:  
 Calcined soda  
 Carbonic acid disodium salt

Na<sub>2</sub>CO<sub>3</sub>·10H<sub>2</sub>O  
 Molecular Weight: 105,99  
 CAS: 497-19-8

HEU210

**Sodium carbonate solution 20%** > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... 1.072 ÷ 1.078

Code	Size	Packaging	Notes
479151	1 l	Plastic bottle	

**Mass percentage based on Na<sub>2</sub>CO<sub>3</sub>·10H<sub>2</sub>O content**



## Sodium carbonate solution

Sodio carbonato soluzione • Sodium carbonate anhydrous solution • Sodio carbonato solución

Synonym:  
Calcined soda  
Carbonic acid disodium salt

Na<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 105,99  
CAS: 497-19-8



**Warning**  
H319  
P264-P280-P305+P351+P338-P337+P313

### Sodium carbonate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611079301	1 l	Plastic bottle	A 106 g/l solution ref Ph.Eur 1079301



## Sodium carbonate 0.5 mol/l (1N)

Sodio carbonato 0.5 mol/l (1N) • Sodium carbonate 0.5 mol/l (1N) • Sodio carbonato 0.5 mol/l (1N)

Synonym:  
Calcined soda  
Carbonic acid disodium salt

Na<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 105,99  
CAS: 497-19-8

HEU210

### Sodium carbonate 0.5 mol/l (1N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.998 - 1.002 N

Code	Size	Packaging	Notes
479186	500 ml	Plastic bottle	

**52,995 g of Na<sub>2</sub>CO<sub>3</sub>. Volumetric solution ready-to-use: 1 N**



## Sodium carbonate 0.05 mol/l (0.1N)

Sodio carbonato 0.05 mol/l (0.1N) • Sodium carbonate 0.05 mol/l (0.1N) • Sodio carbonato 0.05 mol/l (0.1N)

Synonym:  
Calcined soda  
Carbonic acid disodium salt

Na<sub>2</sub>CO<sub>3</sub>  
Molecular Weight: 105,99  
CAS: 497-19-8

HEU210

### Sodium carbonate 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
479211		Plastic ampoule	Volume : 55 ml

**5,299 g of Na<sub>2</sub>CO<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Sodium chloride

Sodio cloruro • Sodium chlorure • Sodio cloruro

Synonym:  
Halite

NaCl  
Molecular Weight: 58,44  
CAS: 7647-14-5  
EEC-N: 231-598-3

### Sodium chloride > RS - For environmental analysis

RS

Description ..... White crystals    Identification ..... Positive    Hg ..... ≤0.005 ppm    Assay (argentimetric) ..... ≥99.5 %

Code	Size	Packaging	Notes
479671	100 g	Glass bottle	

**Low content in Hg**

### Sodium chloride > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
612000600	250 g	Plastic bottle	Ref Ph.Eur 2000600

### Sodium chloride > RS - Standard for volumetry

RS

Description ..... White crystals    Identification ..... Positive    Assay ..... ≥99.5 %

Code	Size	Packaging	Notes
479652	50 g	Glass bottle	

**Sodium chloride > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**

Description .....	White crystals	Nitrate, Chlorate (NO <sub>3</sub> ) .....	≤ 30 ppm	Al .....	≤ 0.2 ppm	Mg .....	≤ 10 ppm
Identification .....	Positive	Phosphate .....	≤ 5 ppm	As .....	≤ 1 ppm	Assay (argentimetric) .....	99.0 ÷ 100.5 % s.s.
pH sol. 5% at 25° C .....	5.0 ÷ 9.0	Water-insoluble matter .....	≤ 50 ppm	Ca .....	≤ 20 ppm	Acidity or alkalinity .....	Conform
Loss on drying .....	≤ 0.5 %	Iodide .....	≤ 20 ppm	Ba .....	Conform	Nitrite .....	Conform
Appearance of solution .....	Conform	Heavy metals (Pb) .....	≤ 5 ppm	Fe .....	≤ 2 ppm	Ferrocyanide .....	≤ 1 ppm
Bromide .....	≤ 100 ppm	Sulphate .....	≤ 40 ppm	K .....	≤ 50 ppm	Magnesium and alkali metals .....	≤ 100 ppm

Code	Size	Packaging	Notes
479685	100 g	Plastic bottle	
479686	500 g	Plastic bottle	
479687	1 kg	Plastic bottle	
479689	5 kg	Plastic jar	
479681	25 kg	Plastic bucket	

**Sodium chloride > RPE - For analysis - According to ASTM B117 ISO 9227/2006****RPE**

Description .....	White crystalline powder	Loss on drying .....	≤ 0.5 %	Halogen (Iodide+Bromide+fluoride) .....	≤ 0.1 %
Identification .....	Positive	Cu .....	≤ 0.3 ppm	Impurezze totali .....	≤ 0.3 % s.s.
Heavy metals (Pb) .....	≤ 5 ppm	Ni .....	≤ 10 ppm	Assay (argentimetric) .....	≥ 99.7 % s.s.

Code	Size	Packaging	Notes
479663	1 kg	Plastic bottle	
479662	5 kg	Plastic bucket	
479661	25 kg	Plastic bucket	

**For salt spray tests****Sodium chloride > ERBApharm - According to pharmacopoeia : Ph.Eur.-Microbiological tested****ERBApharm**

Description .....	White crystalline powder	Ferrocyanide .....	Pass test	Heavy metals (Pb) .....	≤ 5 ppm	Assay (argentimetric) .....	99.0 ÷ 100.5 % s.s.
Identification (I.R.) .....	Positive	Nitrite .....	Pass test	Sulphate .....	≤ 200 ppm	Total aerobic microbial count (TAMC) .....	≤ 100 CFU/g
Appearance of solution .....	Pass test	Loss on drying .....	≤ 0.5 %	Al .....	≤ 0.2 ppm	Total yeasts/mould count (TYMC) .....	≤ 10 CFU/g
Acidity or alkalinity .....	Pass test	Mg, alkal. earth met. (Ca) .....	≤ 100 ppm	As .....	≤ 1 ppm		
Barium .....	Pass test	Bromide .....	≤ 100 ppm	Fe .....	≤ 2 ppm		
Iodide .....	Pass test	Phosphate .....	≤ 25 ppm	K .....	≤ 500 ppm		

Code	Size	Packaging	Notes
368281	10 kg	Drum	

**Sodium chloride > ERBApharm - According to pharmacopoeia : Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP****ERBApharm**

Description .....	White crystalline powder	Barium .....	Conform Ph.Eur.	Mg, alkal. earth met. (Ca) .....	≤ 100 ppm	Al .....	≤ 0.2 ppm
Identification .....	Positive	Iodide .....	Conform Ph.Eur.	Bromide .....	≤ 100 ppm	As .....	≤ 1 ppm
Appearance of solution .....	Conform Ph.Eur.	Ferrocyanide .....	Conform Ph.Eur.	Phosphate .....	≤ 25 ppm	Fe .....	≤ 2 ppm
Acidity or alkalinity .....	Conform Ph.Eur.	Nitrite .....	Conform Ph.Eur.	Heavy metals (Pb) .....	≤ 3 ppm	K .....	≤ 500 ppm
Residue solvents .....	Conform USP	Loss on drying .....	≤ 0.5 %	Sulphate .....	≤ 200 ppm	Assay (argentimetric) .....	99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
368257	1 kg	Plastic bottle	
368259	5 kg	Plastic jar	
368253	25 kg	Plastic bucket	

**Sodium chloride 5 mol/l (5N)**

Sodio cloruro 5 mol/l (5N) • Sodium chlorure 5 mol/l (5N) • Sodio cloruro 5 mol/l (5N)

Synonym:  
HaliteNaCl  
Molecular Weight: 58,44  
CAS: 7647-14-5**Sodium chloride 5 mol/l (5N) > RPE - For analysis****RPE**

Clear, colourless liquid .....	Conform	Assay (potentiometry) .....	4.990 - 5.010 N
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Code	Size	Packaging	Notes
502131	1 l	Bottle	

**Content is guaranteed for standardized volumes at 20 °C**



## Sodium chloride 0.1 mol/l (0,1N)

Sodio cloruro 0.1 mol/l (0,1N) • Sodium chlorure 0.1 mol/l (0,1N) • Sodio cloruro 0.1 mol/l (0,1N)

Synonym:  
Halite

NaCl  
Molecular Weight: 58,44  
CAS: 7647-14-5

### Sodium chloride 0.1 mol/l (0,1N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
479781		Plastic ampoule	Volume : 55 ml

**5,844 g NaCl. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**



## Sodium citrate dibasic sesquihydrate

Sodio citrato bibasico • Sodium citrate dibasique • Sodio citrato dibásico

Synonym:  
Citric acid disodium salt

$C_6H_6O_7Na_2 \cdot 1.5H_2O$   
Molecular Weight: 263,1  
CAS: 144-33-2  
EEC-N: 205-623-3

### Sodium citrate dibasic sesquihydrate > ERBApharm - According to pharmacopoeia : BP

ERBApharm

Description ..... White crystalline powder pH solution 3% ..... 4.9 ÷ 5.2 Oxalate ..... ≤150 ppm Assay (acidimetric) ..... 98.0 ÷ 104.0 %  
Identification ..... Positive Chloride ..... ≤330 ppm Sulphate ..... ≤0.12 % Origin (BSE/TSE) ..... Vegetable  
Ready carbonizable substances Conform BP Heavy metals (Pb) ..... ≤20 ppm As ..... ≤2 ppm Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
367951	1 kg	Plastic bottle	



## Sodium citrate tribasic anhydrous

Sodio citrato tribasico anidro • Sodium citrate tribasique anhydre • Sodio citrato tribásico anhidro

$Na_3C_6H_5O_7$   
Molecular Weight: 258,12  
CAS: 68-04-2  
EEC-N: 200-675-3

### Sodium citrate tribasic anhydrous > ERBApharm - According to pharmacopoeia : USP

ERBApharm

Description ..... White crystalline powder Alkalinity ..... Conform USP-NF Loss at 180°C ..... ≤1.0 % Assay (protonometric) ..... 99.0 ÷ 100.5 % s.s.  
Identification ..... Positive Tartrate ..... Conform USP-NF Heavy metals (Pb) ..... ≤10 ppm

Code	Size	Packaging	Notes
368107	1 kg	Plastic bottle	



## Sodium citrate tribasic dihydrate

Sodio citrato tribasico biidrato • Sodium citrate tribasique bihydraté • Sodio citrato tribásico dihidrato

Synonym:  
Trisodium citrate dihydrate  
Citric acid trisodium salt dihydrate

$Na_3C_6H_5O_7 \cdot 2H_2O$   
Molecular Weight: 294,1  
CAS: 6132-04-3  
EEC-N: 200-675-3

### Sodium citrate tribasic dihydrate > RPE - For analysis

RPE

Description ..... White crystalline powder Chloride ..... ≤10 ppm As ..... ≤0.2 ppm Pb ..... ≤2 ppm  
Identification ..... Positive Total phosphorus ..... ≤10 ppm Ca ..... ≤20 ppm Zn ..... ≤2 ppm  
Reducing iodine ..... Conform Water-insoluble matter ..... ≤30 ppm Cu ..... ≤2 ppm Assay (non-aqueous medium) ..... ≥99 %  
Ready carbonizable substances ..... Conform Heavy metals (Pb) ..... ≤5 ppm Fe ..... ≤5 ppm  
pH sol. 5% at 25° C ..... 7.5 ÷ 8.7 Oxalate ..... ≤100 ppm K ..... ≤250 ppm  
Ammonium ..... ≤10 ppm Total sulphur ..... ≤20 ppm Ni ..... ≤2 ppm

Code	Size	Packaging	Notes
479485	250 g	Plastic bottle	
479487	1 kg	Plastic bottle	
479488	2.5 kg	Plastic bottle	
479484	50 kg	Plastic bucket	

**Sodium citrate tribasic dihydrate > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP-DAB****ERBapharm**

Description .....	White crystalline powder	Acidity or alkalinity.....	Conform Ph.Eur.	Water (K.F.).....	11.0 ÷ 13.0 %	Oxalate.....	≤300 ppm
Identification .....	Positive	Ready carbonizable substances.....	Conform Ph.Eur.	Chloride.....	≤50 ppm	Sulphate.....	≤150 ppm
Appearance of solution.....	Conform Ph.Eur.	Tartrate.....	Conform USP-NF	Heavy metals (Pb).....	≤10 ppm	Assay (protonometric).....	99.0 ÷ 100.5 % s.s.

Code	Size	Packaging	Notes
368057	1 kg	Plastic bottle	
368058	5 kg	Plastic jar	
368052	10 kg	Plastic jar	
368051	25 kg	Plastic bucket	
368054	50 kg	Fibre drum	

**Sodium citrate tribasic dihydrate**

Sodio citrato tribásico diidrato • Sodium citrate tribasique dihydraté • Sodio citrato tribásico dihidrato

Synonym:  
Citric acid trisodium salt

$\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O}$   
Molecular Weight: 294.10  
CAS: 6132-04-3  
EEC-N: 200-675-3

**Sodium citrate tribasic dihydrate > RE - Pure****RE**

Description ..... White crystalline powder Identification ..... Positive Assay (non-aqueous medium) ..... ≥99 % s s

Code	Size	Packaging	Notes
368007	1 kg	Plastic bottle	
368009	5 kg	Plastic jar	

**Sodium cobalt nitrite**

Sodio cobalto nitrito • Sodium cobalt nitrite • Sodio cobalto nitrito

Synonym:  
Sodium hexanitrocobaltate(III)

$\text{Na}_3\text{Co}(\text{NO}_2)_6$   
Molecular Weight: 403,94  
CAS: 13600-98-1  
EEC-N: 237-077-7

**Classification transport**  
ONU: 1479  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H315-H319-H334-H317-H351-H335  
P210-P280-P304+P312a-P305+P351+P338-  
P302+P334

**Sodium cobalt nitrite > RPE - For analysis****RPE**Description ..... Dark orange powder Diluted acetic acid insoluble matter . ≤ 0.02 % Chloride..... ≤ 50 ppm Fe ..... ≤ 5 ppm  
Identification ..... Positive Sulphate..... ≤ 100 ppm K..... ≤ 100 ppm  
Suitability for K determ. .... Conform

Code	Size	Packaging	Notes
479833	50 g	Glass bottle	

**Sodium cyanoborohydride**

Sodio cianoboroidraro • Sodium cyanoborohydride • Sodio cianoborohidruo

Synonym:  
Sodium cyanoborohydride  
Sodium cyanotrihydridoborate

$\text{Na}(\text{H}_3\text{BCN})$   
Molecular Weight: 62,84  
CAS: 25895-60-7  
EEC-N: 247-317-2

**Classification transport**  
ONU: 1409  
Transport Hazard class: 4.3  
Packing group I



**Danger**  
H260-H314-HEU032  
P223-P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

**Sodium cyanoborohydride > RPE - For analysis****RPE**

Description ..... White powder Identification ..... Positive Assay (iodometric) ..... ≥90 % s s

Code	Size	Packaging	Notes
479371	25 g	Glass bottle	

**Sodium 1-decanesulfonate ▶ 1-Decanesulfonic acid sodium salt**



## Sodium dichloroisocyanurate dihydrate

Sodio dicloroisocianurato biidrato • Sodium dichloroisocyanurate dihydrate • Sodio dicloroisocianurato diidrato

Synonym:

*Dichloroisocyanuric acid sodium salt dihydrate*

$C_3Cl_2N_3NaO_3 \cdot 2H_2O$   
Molecular Weight: 255,98  
CAS: 51580-86-0  
EEC-N: 220-767-7

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



### Warning

H302-H319-H335-H410-HEU031  
P264-P273-P271-P304+P340-  
P305+P351+P338-P330

### Sodium dichloroisocyanurate dihydrate > RPE - For analysis

**RPE**

Description ..... White granular powder Identification ..... Positive Assay ..... ≥ 98.0 %

Code	Size	Packaging	Notes
479921	10 g	Glass bottle	



## Sodium diethyldithiocarbamate trihydrate

Sodio dietilditiocarbammato triidrato • Sodium diethyldithiocarbamate trihydrate • Sodio dietilditiocarbammato triidrato

Synonym:

*Diethyldithiocarbamic acid sodium salt*

$(C_2H_5)_2NCSSNa \cdot 3H_2O$   
Molecular Weight: 225,23  
CAS: 20624-25-3  
EEC-N: 205-710-6



### Warning

H302-H351  
P264-P281-P270-P308+P313-P330-P301+P312a

### Sodium diethyldithiocarbamate trihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Whyte-yellow crystals Copper sensitivity ..... Conform Sodium (Na2S04) ..... 30.5 ÷ 32.5 %  
Identification (I.R.) ..... Conform Water solubility ..... Conform

Code	Size	Packaging	Notes
405144	100 g	Plastic bottle	

**Indicator for the determination of heavy metals**

Sodium dihydrogen phosphate dihydrate ▶ Sodium phosphate monobasic dihydrate

Sodium dihydrogen phosphate monohydrate ▶ Sodium phosphate monobasic monohydrate

Sodium 1-dodecanesulfonate ▶ 1-Dodecanesulfonic acid sodium salt

Sodium dodecylbenzenesulfonate ▶ Dodecylbenzenesulphonic acid sodium salt

Sodium dodecyl sulfate ▶ Sodium laurylsulfate



## Sodium fluoride

Sodio fluoruro • Sodium fluorure • Sodio fluoruro

NaF  
Molecular Weight: 41,99  
CAS: 7681-49-4  
EEC-N: 231-667-8

**Classification transport**  
ONU: 1690  
Transport Hazard class: 6.1  
Packing group III



### Danger

H301-H315-H319-HEU032  
P264-P305+P351+P338-P301+P310a-P330-  
P332+P313-P337+P313

### Sodium fluoride > RPE - For analysis - ACS - ISO

**RPE**

Description ..... White crystalline powder Alkalinity ..... ≤0.01 meq/g Heavy metals (Pb) ..... ≤30 ppm K ..... ≤200 ppm  
Identification ..... Positive Chloride ..... ≤50 ppm Sulphate ..... ≤300 ppm Assay (acidimetric) ..... ≥99 %  
Loss on drying ..... ≤0.3 % Fluosilicates ..... ≤0.1 % Sulphite ..... ≤50 ppm  
Acidity ..... ≤0.03 meq/g Water-insoluble matter ..... ≤200 ppm Fe ..... ≤30 ppm

Code	Size	Packaging	Notes
479955	250 g	Plastic bottle	
479957	1 kg	Plastic bottle	
479954	25 kg	Plastic bucket	



**Sodium fluoride > RE - Pure**

RE

Description ..... White crystalline powder    Chloride ..... ≤ 100 ppm    Sulphate ..... ≤ 5000 ppm    Assay ..... ≥ 97 %  
 Identification ..... Positive    Heavy metals (Pb) ..... ≤ 100 ppm    Fe ..... ≤ 200 ppm

Code	Size	Packaging	Notes
368457	1 kg	Plastic bottle	
368458	5 kg	Plastic jar	
368451	25 kg	Plastic bucket	

**Sodium formate**

Sodio formiato • Sodium formiate • Sodio formiato

Synonym:

Formic acid sodium salt

HCOONa

Molecular Weight: 68,01

CAS: 141-53-7

EEC-N: 205-488-0

**Warning**

H319

P264-P280-P305+P351+P338-P337+P313

**Sodium formate > RPE - For analysis - ACS**

RPE

Description ..... White crystalline powder    Chloride ..... ≤ 10 ppm    Fe ..... ≤ 5 ppm  
 Identification ..... Positive    Sulphate ..... ≤ 10 ppm    Heavy metals (Pb) ..... ≤ 5 ppm  
 Not soluble matter ..... ≤ 50 ppm    Ca ..... ≤ 50 ppm    Assay (oxidimetric) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
480045	100 g	Plastic bottle	
480046	500 g	Plastic bottle	

**Sodium gluconate**

Sodio gluconato • Sodium gluconate • Sodio gluconato

Synonym:

2,3,4,5,6-Pentahydroxycaproic acid sodium salt

D-gluconate sodium salt

C<sub>6</sub>H<sub>11</sub>NaO<sub>7</sub>

Molecular Weight: 218,13

CAS: 527-07-1

EEC-N: 208-407-7

**Sodium gluconate > RE - Pure**

RE

Description ..... White powder    Chloride ..... ≤ 500 ppm    Assay (non-aqueous medium) ..... ≥ 98 %  
 Identification ..... Positive    Red.ing sugars(Glucose) ..... ≤ 1 %

Code	Size	Packaging	Notes
369582	1 kg	Plastic bottle	

**Sodium glutamate acid**

Sodio glutammato acido • Sodium glutamate • Sodio glutamato acido

Synonym:

L-Glutamic acid monosodium salt hydrate

L-2-Aminopentanedioic acid

C<sub>5</sub>H<sub>8</sub>NO<sub>4</sub>Na.H<sub>2</sub>O

Molecular Weight: 187

CAS: 142-47-2

EEC-N: 205-538-1

**Sodium glutamate acid > RE - Pure**

RE

Description ..... White cryst. need.sha    Identification ..... Positive    Potere rotator. specif.(C=1 HCl 6N).. +23 ÷ +25.3 °    Assay (ex nitrogen) ..... ≥ 98 %

Code	Size	Packaging	Notes
369667	1 kg	Plastic bottle	



## Sodium glycerophosphate pentahydrate

Sodio glicerofosfato pentaidrato • Sodium glycérophosphate pentahydraté • Sodio glicerofosfato pentaidrato

Synonym:  
Glycerol-2-phosphate disodium salt hydrate  
BGP

$C_3H_7O_6PNa_2 \cdot 5H_2O$   
Molecular Weight: 306.0  
CAS: 13408-09-8

### Sodium glycerophosphate pentahydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.

**ERBApharm**

Description .....	White crystalline powder	Heavy metals (Pb).....	≤ 20 ppm	Alcalinity .....	Conform Ph.Eur.	Glycerol and alcohol-soluble substances..	≤ 1.0 %
Identification .....	Positive	Fe .....	≤ 20 ppm	Water (K.F.) .....	25.0 ÷ 35.0 %	Sulphate .....	≤ 0.05 %
Phosphate .....	≤ 0.1 %	Appearance of solution .....	Conform Ph.Eur.	Chloride.....	≤ 0.02 %	Assay .....	98.0 ÷ 105.0 % anidro

Code	Size	Packaging	Notes
369447	1 kg	Plastic bottle	
369449	5 kg	Plastic jar	

## Sodium 1-heptanesulfonate ▶ 1-Heptanesulphonic acid sodium salt



## Sodium hexafluorosilicate

Sodio esafluorosilicato • Sodium hexafluorosilicate • Sodio hexafluorosilicato

$Na_2SiF_6$   
Molecular Weight: 188,06  
CAS: 16893-85-9  
EEC-N: 240-934-8

### Classification transport

ONU: 2674  
Transport Hazard class: 6.1  
Packing group III



### Danger

H301-H311-H331  
P264-P271-P304+P340-P301+P310a-P312a-P330

### Sodium hexafluorosilicate > RPE - For analysis

**RPE**

Description .....	White crystalline powder	Chloride.....	≤200 ppm	Heavy metals (Pb).....	≤50 ppm	Assay (acidimetric) .....	≥98.5 %
Identification .....	Positive	Sulphate.....	≤200 ppm	Fe .....	≤50 ppm		

Code	Size	Packaging	Notes
480005	250 g	Plastic bottle	



## Sodium hexametaphosphate

Sodio esametafosfato • Sodium hexamétaphosphate • Sodio hexametafosfato

Synonym:  
Sodium metaphosphate

$(NaPO_3)_6$   
Molecular Weight: 611,76  
CAS: 10124-56-8  
EEC-N: 233-343-1

### Sodium hexametaphosphate > RE - Pure

**RE**

Description .....	White crystalline powder	Chloride.....	≤700 ppm	Total P205.....	≥66 %
Identification .....	Positive	Heavy metals (Pb).....	≤25 ppm	As .....	≤5 ppm
pH sol. 0.25% at 25° C .....	6.5 ÷ 7.5	Sulphate.....	≤0.24 %	Fe .....	≤500 ppm

Code	Size	Packaging	Notes
368357	1 kg	Plastic bottle	
368352	25 kg	Plastic bucket	

## Sodium 1-hexanesulfonate ▶ 1-Hexanesulphonic acid sodium salt

## Sodium 1-hexanesulfonate monohydrate ▶ 1-Hexanesulphonic acid sodium salt monohydrate

## Sodium hexanitrocobaltate(III) ▶ Sodium cobalt nitrite

## Sodium hydrogen carbonate ▶ Sodium bicarbonate

di-Sodium hydrogen phosphate ▶ Sodium phosphate dibasic anhydrous

di-Sodium hydrogen phosphate dihydrate ▶ Sodium phosphate dibasic dihydrate

di-Sodium hydrogen phosphate dodecahydrate ▶ Sodium phosphate dibasic dodecahydrate

Sodium hydrogen sulfate monohydrate ▶ Sodium bisulfate monohydrate

**Sodium hydrogen tartrate monohydrate**

Sodio tartrato acido • Sodium tartrate acide • Sodio tartrato acido

Synonym:

*Sodium bitartrate monohydrate*NaOOC(CHOH)<sub>2</sub>COOH.H<sub>2</sub>O

Molecular Weight: 190,09

CAS: 526-94-3

EEC-N: 208-400-9

**Sodium hydrogen tartrate monohydrate > RPE - For analysis****RPE**

Description .....	White crystals	Chloride .....	≤ 10 ppm	As .....	≤ 0.4 ppm	Ni .....	≤ 2 ppm
Identification .....	Positive	Total phosphorus .....	≤ 10 ppm	Ca .....	≤ 100 ppm	Pb .....	≤ 2 ppm
pH sol. 5% at 25° C .....	3.30 ÷ 3.60	Water-insoluble matter .....	≤ 50 ppm	Cu .....	≤ 2 ppm	Zn .....	≤ 2 ppm
Loss on drying .....	9 ÷ 10 %	Heavy metals (Pb) .....	≤ 10 ppm	Fe .....	≤ 10 ppm	Assay (acidimetric) .....	≥ 99.5 %
Ammonium .....	≤ 50 ppm	Total sulphur .....	≤ 50 ppm	K .....	≤ 100 ppm		

Code	Size	Packaging	Notes
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483706	500 g	Plastic bottle	
483703	25 kg	Fibre drum	

**Sodium hydrosulfite**

Sodio idrosolfito • Sodium hydrosulfite • Sodio idrosolfito

Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub>

Molecular Weight: 174,11

CAS: 7775-14-6

EEC-N: 231-890-0

**Classification transport**

ONU: 1384

Transport Hazard class: 4.2

Packing group II

**Danger**

H251-H302-H319-HEU031

P264-P280a-P305+P351+P338-P330-P337+P313-P301+P312a

**Sodium hydrosulfite > RE - Pure****RE**

Description .....	White crystalline powder	Identification .....	Positive	Assay (oxidimetric) .....	≥ 80 %
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Code	Size	Packaging	Notes
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370011	1 kg	Bottle	
370014	2.5 kg	Metal bucket	
370012	25 kg	Drum	



## Sodium hydroxide, pearls

Sodio idrossido, perline • Sodium hydroxyde, perles • Sodio hidróxido, perlas

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1823  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Sodium hydroxide, pearls > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF

**ERBApharm**

Description ..... Pearls white  
Identification ..... Positive  
Appearance of solution ..... Conform Ph. Eur.  
Not sol.matter.org.mat ..... Conform NF

K ..... Conform NF  
pH .....  $\geq 11.0$   
Carbonate .....  $\leq 2.0$  %  
Chloride .....  $\leq 200$  ppm

Heavy metals (Pb) .....  $\leq 20$  ppm  
Sulphate .....  $\leq 200$  ppm  
Fe .....  $\leq 10$  ppm  
Assay (total alkalin.) .....  $97.0 \div 100.5$  %

Origin (BSE/TSE) ..... Synthesis  
Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
369743	1 kg	Plastic bottle	
369741	5 kg	Plastic jar	
369742	25 kg	Sack	
369744	25 kg	Plastic bucket	



## Sodium hydroxide, pellets

Sodio idrossido, gocce • Sodium hydroxyde, pastilles • Sodio hidróxido, lentejas

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2  
EEC-N: 215-185-5

**Classification transport**  
ONU: 1823  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Sodium hydroxide, pellets > RS - RSE - For electronic use

**RS**

Description ..... White pellets  
Identification ..... Positive  
Total nitrogen .....  $\leq 3$  ppm  
Carbonate .....  $\leq 5000$  ppm  
Chloride .....  $\leq 10$  ppm  
Phosphate .....  $\leq 5$  ppm

Heavy metals (Pb) .....  $\leq 2$  ppm  
Silicate .....  $\leq 20$  ppm  
Sulphate .....  $\leq 5$  ppm  
Al .....  $\leq 2$  ppm  
As .....  $\leq 0.5$  ppm  
Ca .....  $\leq 5$  ppm

Cd .....  $\leq 0.1$  ppm  
Cu .....  $\leq 0.5$  ppm  
Fe .....  $\leq 3$  ppm  
Hg .....  $\leq 0.1$  ppm  
K .....  $\leq 100$  ppm  
Mg .....  $\leq 5$  ppm

Mn .....  $\leq 0.5$  ppm  
Ni .....  $\leq 2$  ppm  
Pb .....  $\leq 1$  ppm  
Zn .....  $\leq 1$  ppm  
Assay (alkalimetric) .....  $\geq 98.5$  %

Code	Size	Packaging	Notes
480527	1 kg	Plastic bottle	
480522	5 kg	Plastic jar	
480525	25 kg	Sack	

### Sodium hydroxide, pellets > RPE - For analysis - ACS - ISO

**RPE**

Description ..... White pellets  
Identification ..... Positive  
Total nitrogen .....  $\leq 10$  ppm  
Carbonate .....  $\leq 1.0$  %

Chloride .....  $\leq 50$  ppm  
Phosphate .....  $\leq 10$  ppm  
Sulphate .....  $\leq 30$  ppm  
Heavy metals (Ag) .....  $\leq 20$  ppm

Ca .....  $\leq 50$  ppm  
Fe .....  $\leq 10$  ppm  
Hg .....  $\leq 0.1$  ppm  
K .....  $\leq 0.02$  %

Mg .....  $\leq 20$  ppm  
Ni .....  $\leq 10$  ppm  
Assay (alkalimetric) .....  $\geq 97.0$  %

Code	Size	Packaging	Notes
480505	100 g	Plastic bottle	
480501	500 g	Plastic bottle	
480507	1 kg	Plastic bottle	
480509	5 kg	Plastic jar	
480502	10 kg	Plastic jar	
480508	25 kg	Plastic bucket	

**Sodium hydroxide, pellets > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.-JP****ERBApharm**

Description .....	Gocce bianche o quasi	K.....	Conform USP-NF	Heavy metals (Pb).....	≤ 30 ppm (JP)	Origin (BSE/TSE).....	Synthesis
Identification .....	Positive	pH.....	≥11.0	Sulphate.....	≤200 ppm	Residual solvents (Current ICH).....	Conform
Appearance of solution.....	Conform Ph.Eur.	Carbonate.....	≤2.0 %	Fe .....	≤10 ppm	Hg.....	≤ 0.1 ppm
Not sol.matter,org.mat.....	Conform USP-NF	Chloride.....	≤200 ppm	Assay (total alkalin.).....	97.0 ÷ 100.5 %		

Code	Size	Packaging	Notes
369777	1 kg	Plastic bottle	
369772	5 kg	Plastic jar	
369771	20 kg	Plastic bucket	
369774	25 kg	Plastic bucket	

**Sodium hydroxide on silica**

Sodio idrossido su silice • Sodium hydroxyde sur silice (Ø mm 1.6-3) • Sodio hidróxido sobre silice

Synonym:  
Caustic soda

NaOH	<b>Classification transport</b>	 	<b>Danger</b>
Molecular Weight: 40	ONU: 1823		H314-H318-H335
CAS: 1310-73-2	Transport Hazard class: 8		P264-P271-P301+P330+P331-P303+P361+P353-
	Packing group II		P304+P340-P305+P351+P338

**Sodium hydroxide on silica > RS - For microanalysis****RS**

Description .....	Dark grey granules	Identification .....	Positive	Average grain diameter.....	1.6 ÷ 3 mm ca.	CO <sub>2</sub> absorption.....	≥30 %
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Code	Size	Packaging	Notes
424494	100 g	Glass bottle	
424497	1 kg	Plastic bottle	

**Sodium hydroxide solution 50%**

Sodio idrossido soluzione 50% • Sodium hydroxyde solution 50% • Sodio hidróxido solución 50%

Synonym:  
Caustic soda

NaOH	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 40	ONU: 1824		H290-H314-H318
CAS: 1310-73-2	Transport Hazard class: 8		P264-P301+P330+P331-P303+P361+P353-
	Packing group II		P304+P340-P305+P351+P338

**Sodium hydroxide solution 50% > RPE - For analysis****RPE**

Assay .....	48 - 51.5 %	Density d <sub>20/4</sub> .....	1.5 - 1.54	NaCl.....	≤ 0.02 %
Iron (Fe).....	≤ 15 mg/Kg	Na <sub>2</sub> CO <sub>3</sub> .....	≤ 0.7 %		

Code	Size	Packaging	Notes
P4540041	10 l	Plastic tank	
P4540049	25 l	Plastic tank	

**Sodium hydroxide solution 40%**

Sodio idrossido soluzione 40% • Sodium hydroxyde solution 40% • Sodio hidróxido solución 40%

Synonym:  
Caustic soda

NaOH	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 40	ONU: 1824		H290-H314-H318
CAS: 1310-73-2	Transport Hazard class: 8		P264-P301+P330+P331-P303+P361+P353-
	Packing group II		P304+P340-P305+P351+P338

**Sodium hydroxide solution 40% > RS - For agroalimentary analysis****RS**

Colour .....	≤ 10 APHA	Density at 20°C .....	1.420 ÷ 1.440	Total nitrogen .....	≤ 10 ppm
Description .....	Clear colourless liquid	Assay .....	39.0 ÷ 41.0 %		

Code	Size	Packaging	Notes
502721	5 l	Plastic tank	

**572 g of NaOH for 1 L**



## Sodium hydroxide solution 35-37%

Sodio idrossido soluzione 35-37% • Sodium hydroxyde solution 35-37% • Sodio hidróxido solución 35-37%

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hydroxide solution 35-37% > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Density at 20°C ..... 1.380 ÷ 1.400    Nitrogen compounds ..... ≤ 10 ppm

Code	Size	Packaging	Notes
502112	5 l	Plastic tank	
502113	25 l	Plastic tank	

500g of NaOH for 1L . According to normative T90-110



## Sodium hydroxide solution 35%

Sodio idrossido soluzione 35% • Sodium hydroxyde solution 35% • Sodio hidróxido solución 35%

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hydroxide solution 35% > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Density at 20° C ..... 1.38 - 1.39    Assay (alkalimetric)..... 35 - 36 %

Code	Size	Packaging	Notes
480591	1 l	Plastic bottle	
480593	25 kg	Plastic tank	



## Sodium hydroxide solution 32%

Sodio idrossido soluzione 32% • Sodium hydroxyde solution 32% • Sodio hidróxido solución 32%

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hydroxide solution 32% > RS - For agroalimentary analysis

RS

Assay ..... 30 - 34 %    Density at 20°C ..... 1.322 - 1.374    Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
524510	25 kg	Plastic tank	

### Sodium hydroxide solution 32% > RS - For Kjeldahl

RS

Description ..... Slightly opalescent liquid    Assay ..... 31.0 - 33.0 %    Nitrogen compounds ..... ≤ 1 ppm  
Colour ..... ≤ 10 APHA    Density at 20°C ..... 1.339 - 1.359

Code	Size	Packaging	Notes
480561	1 l	Plastic bottle	
480566	2.5 l	Plastic bottle	
526521	5 l	Plastic tank	
480564	10 l	Plastic tank	
480562	25 kg	Plastic tank	
480563	30 kg	Plastic tank	

**Sodium hydroxide solution 30%**

Sodio idrossido soluzione 30% • Sodium hydroxyde solution 30% • Sodio hidróxido solución 30%

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sodium hydroxide solution 30% > RS - For agroalimentary analysis****RS**

Description ..... Slightly opalescent liquid Colour ..... ≤ 10 APHA Density at 20°C ..... ≥ 1.323

Code	Size	Packaging	Notes
502741	5 l	Plastic tank	

**Sodium hydroxide solution 30% > RPE - For nitrogen dosing****RPE**Description ..... Clear colourless liquid Density at 20°C ..... 1.323 ÷ 1.333 Assay ..... 29.5 ÷ 30.5 %  
Colour ..... ≤ 10 APHA Total nitrogen ..... ≤ 1 ppm

Code	Size	Packaging	Notes
502731	1 l	Plastic bottle	

**Sodium hydroxide solution 30% > ERBApharm - Prepared from raw material according Ph.Eur****ERBApharm**Description ..... Clear colourless liquid Density at 20°C ..... 1.311 ÷ 1.344 Iron ..... ≤ 10 ppm Assay ..... 29.5 ÷ 30.5 %  
Colour ..... ≤ 10 APHA Chloride ..... ≤ 200 ppm Heavy metals (Pb) ..... ≤ 20 ppm  
Identification ..... Positive Sulphate ..... ≤ 200 ppm Carbonate ..... ≤ 0.6 %

Code	Size	Packaging	Notes
369704	1 l	Plastic bottle	
369702	20 l	Plastic tank	
369701000	10 kg	Plastic tank	

**Sodium hydroxide solution 30% > RE - Pure****RE**Description ..... Opalescent liquid Density at 20°C ..... 1.306 - 1.349 Carbonate ..... ≤ 1.2 % Sulphate ..... ≤ 150 ppm  
Identification ..... Positive Alkalinity (NaOH) ..... 28.0 ÷ 32.0 % Chloride ..... ≤ 300 ppm Fe ..... ≤ 30 ppm

Code	Size	Packaging	Notes
369762	10 kg	Plastic tank	
369761	30 kg	Plastic tank	
369766	50 kg	Plastic tank	

**Sodium hydroxide solution 20% w/v**

Sodio idrossido soluzione 20% p/v • Sodium hydroxyde solution 20% m/v • Sodio hidróxido solución 20% p/v

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sodium hydroxide solution 20% w/v > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611081401	1 l	Plastic bottle	Ref Ph.Eur 1081401



## Sodium hydroxide solution 20% w/w

Sodio idrossido soluzione 20% p/p • Sodium hydroxyde solution à 20% m/m • Sodio hidróxido solución 20% p/p

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hydroxide solution 20% w/w > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.213 - 1.225    Assay (alkalimetric)..... 19.5 - 20.5 %    Carbonate..... ≤1 %

Code	Size	Packaging	Notes
480621	1 l	Plastic bottle	
480622	30 kg	Plastic drum	



## Sodium hydroxide solution 10% w/v

Sodio idrossido soluzione 10% p/v • Sodium hydroxyde solution 10% m/v • Sodio hidróxido solución 10% p/v

Synonym:  
*Caustic soda*

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hydroxide solution 10% w/v > RS - For agroalimentary analysis

**RS**

Description ..... Slightly opalescent liquid    Identification ..... Positive    Assay (NaOH)..... 9 - 11 %m/v

Code	Size	Packaging	Notes
508615	5 l	Plastic tank	

### Sodium hydroxide solution 10% w/v > RPE - For analysis

**RPE**

Description ..... Slightly opalescent liquid    Colour ..... ≤ 10 APHA    Assay (NaOH) ..... 9.9 ÷ 10.1 %m/v

Code	Size	Packaging	Notes
524506	5 l	Plastic tank	
524507	10 l	Plastic tank	

### Sodium hydroxide solution 10% w/v > RE - Pure

**RE**

Description ..... Slightly opalescent liquid    Colour ..... ≤ 10 APHA    Assay (NaOH) ..... 9.5 - 10.5 %m/v

Code	Size	Packaging	Notes
526642	5 l	Plastic tank	
526641	10 l	Plastic tank	



## Sodium hydroxide solution 5% w/v

Sodio idrossido soluzione 5% p/v • Sodium hydroxyde solution 5% m/v • Sodio hidróxido solución 5% w/v

Synonym:  
*Caustic soda*

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hydroxide solution 5% w/v > RPE - For analysis

**RPE**

Description ..... Slightly opalescent liquid    Colour ..... ≤ 10 APHA    Assay (NaOH) ..... 4.9 ÷ 5.1 %m/v

Code	Size	Packaging	Notes
524502	5 l	Plastic tank	
524501	10 l	Plastic tank	

### Sodium hydroxide solution 5% w/v > RE - Pure

**RE**

Description ..... Slightly opalescent liquid    Colour ..... ≤ 10 APHA    Assay (NaOH) ..... 4.5 - 5.5 %m/v

Code	Size	Packaging	Notes
526632	5 l	Plastic tank	
526634	10 l	Plastic tank	



**Sodium hydroxide 200g/l**

Sodio idrossido 200g/l • Sodium hydroxyde 200g/l • Sodio hidróxido 200g/l

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40.00  
CAS: 1310-73-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sodium hydroxide 200g/l > RE - Pure**

RE

Concentration .....199.6 - 200.4 g/l

Code	Size	Packaging	Notes
PS0858/49	25 l	Plastic tank	

**Sodium hydroxide 40g/l**

Sodio idrossido 40g/l • Sodium hydroxyde 40g/l • Sodio hidróxido 40g/l

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sodium hydroxide 40g/l > RE - Pure**

RE

Concentration .....39 - 41 g/l

Code	Size	Packaging	Notes
PS0320/41	10 l	Plastic tank	

**Sodium hydroxide solution**

Sodio idrossido soluzione • Sodium hydroxyde solution • Sodio hidróxido solución

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sodium hydroxide solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611081402	1 l	Plastic bottle	Ref Ph.Eur 1081402
611081404	1 l	Plastic bottle	Sodium hydroxide solution, strong Ref Ph.Eur 1081404

**Sodium hydroxide solution, methanolic**

Sodio idrossido soluzione, metanolica • Sodium hydroxyde solution dans le méthanol • Sodio hidróxido solución, metanólico

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 2810**Sodium hydroxide solution, methanolic > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611081405	100 ml	Glass bottle	Sodium hydroxide solution, methanolic R1 Ref Ph.Eur 1081405



## Sodium hydroxide 5 mol/l (5N)

Sodio idrossido 5 mol/l (5N) • Sodium hydroxyde 5 mol/l(5N) • Sodio hidróxido 5 mol/l (5N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hydroxide 5 mol/l (5N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Assay ..... 4.995 ÷ 5.005 N

Code	Size	Packaging	Notes
526513	1 l	Glass bottle	
526512	5 l	Plastic tank	

Content is guaranteed for standardized volumes at 20°C



## Sodium hydroxide 3 mol/l (3N)

Sodio idrossido 3 mol/l (3N) • Sodium hydroxyde 3 mol/l (3N) • Sodio hidróxido 3 mol/l (3N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hydroxide 3 mol/l (3N) > ERBApharm - Prepared from raw material according Ph.Eur

ERBApharm

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....2.85 - 3.15 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
524732	500 ml	Bottle	



## Sodium hydroxide 2.5 mol/l (2.5N)

Sodio idrossido 2.5 mol/l (2.5N) • Sodium hydroxyde 2.5 mol/l (2.5N) • Sodio hidróxido 2.5 mol/l (2.5N)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hydroxide 2.5 mol/l (2.5N) > RPE - For analysis

RPE

Assay (potentiometry) .....2.45 - 2.55 N Na2CO3 ..... ≤ 0.4 % Iron (Fe).....≤ 10 mg/Kg Mercury (Hg).....≤ 0.05 mg/Kg  
----- Na2SO4..... ≤ 0.006 % Arsenic (As) ..... ≤ 3 mg/Kg  
Assay ..... ≥ 99 % Heavy metals (as Pb) ..... ≤ 20 mg/Kg Lead (Pb) ..... ≤ 0.5 mg/Kg

Code	Size	Packaging	Notes
PS0594/41	10 l	Plastic tank	
PS0594/42	20 l	Plastic tank	
PS0594/66	200 l	Polythene-metal drum	

**Sodium hydroxide 2 mol/l (2N)**

Sodio idrossido 2 mol/l (2N) • Sodium hydroxyde 2 mol/l (2N) • Sodio hidróxido 2 mol/l (2N)

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H290-H314-H318  
P264-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sodium hydroxide 2 mol/l (2N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 84 .....

Code	Size	Packaging	Notes
480686000	500 ml	Plastic bottle	
480687000	1 l	Plastic bottle	
480682000	5 l	Plastic tank	
480681000	10 l	Kubidos	
480684000	20 l	Plastic tank	

**80 g de NaOH. Volumetric solution ready-to-use : 2N. Traceable to NIST****Sodium hydroxide 2 mol/l (2N) > ERBapharm - Prepared from raw material according Ph.Eur****ERBapharm**

Identification (Ph.Eur)..... Conform Assay (Ph.Eur)..... 1.9 - 2.1 N Origine (BSE-TSE)..... Conform Residual solvents (Current ICH)..... Conform

Code	Size	Packaging	Notes
524671	1 l	Plastic bottle	

**Sodium hydroxide 1.2 mol/l (1.2N)**

Sodio idrossido 1.2 mol/l (1.2N) • Sodium hydroxyde 1.2 mol/l (1.2N) • Sodio hidróxido 1.2 mol/l (1.2N)

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40  
CAS: 1310-73-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sodium hydroxide 1.2 mol/l (1.2N) > RS - For analysis****RS**

Assay (potentiometry) ..... 1.1976 - 1.2024 N

Code	Size	Packaging	Notes
PS0736/41	10 l	Plastic tank	
PS0736/42	20 l	Plastic tank	
PS0736/49	25 l	Plastic tank	

**Sodium hydroxide 1 mol/l (1N)**

Sodio idrossido 1 mol/l (1N) • Sodium hydroxyde 1 mol/l (1N) • Sodio hidróxido 1 mol/l (1N)

Synonym:  
Caustic sodaNaOH  
Molecular Weight: 40.00  
CAS: 1310-73-2**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II**Danger**  
H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sodium hydroxide 1 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613006301	500 ml	Plastic bottle	Ref Ph.Eur 3006300
613006300	1 l	Plastic bottle	Ref Ph.Eur 3006300

**Sodium hydroxide 1 mol/l (1N) > RS - For analysis according to USP****RS**

Code	Size	Packaging	Notes
617000121	500 ml	Plastic bottle	

## Sodium hydroxide 1 mol/l (1N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Assay (potentiometry) ..... 0.999 - 1.001 N    NIST 84 ..... I

Code	Size	Packaging	Notes
480717000	1 l	Plastic bottle	
480711000	5 l	Kubidos	
480714000	5 l	Plastic tank	
480713000	10 l	Kubidos	

**40 g de NaOH. Volumetric solution ready-to-use : 1N. Traceable to NIST**

## Sodium hydroxide 1 mol/l (1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
480741		Plastic ampoule	Volume : 165 ml

**40 g NaOH. Volumetric concentrated solution to prepare 1 L of solution 1 N**

## Sodium hydroxide 1 mol/l (1N) > ERBapharm - Prepared from raw material according Ph.Eur

**ERBapharm**

Identification (Ph.Eur) ..... Conform    Assay (Ph.Eur) ..... 0.95 - 1.05 N    Origine (BSE-TSE) ..... Conform    Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
524621	1 l	Plastic bottle	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**


## Sodium hydroxide 0.7 mol/l (N/1.4)

Sodio idrossido 0.7 mol/l (N/1.4) • Sodium hydroxyde 0.7 mol/l (N/1.4) • Sodio hidróxido 0.7 mol/l (N/1.4)

 Synonym:  
Caustic soda

 NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**  
H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Sodium hydroxide 0.7 mol/l (N/1.4) > RS - For agroalimentary analysis

**RS**

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Assay ..... 0.710 ÷ 0.718 N

Code	Size	Packaging	Notes
526511	10 l	Kubidos	



## Sodium hydroxide 0.5 mol/l (N/2)

Sodio idrossido 0.5 mol/l (N/2) • Sodium hydroxyde 0.5 mol/l (N/2) • Sodio hidróxido 0.5 mol/l (N/2)

 Synonym:  
Caustic soda

 NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II

**Danger**  
H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Sodium hydroxide 0.5 mol/l (N/2) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.4995 - 0.5005 N    NIST 84 ..... I

Code	Size	Packaging	Notes
480777000	1 l	Plastic bottle	
480771000	5 l	Kubidos	
480772000	10 l	Kubidos	
480773000	10 l	Plastic tank	

**20 g of NaOH. Volumetric solution ready-to-use : 0.5N. Traceable to NIST**

## Sodium hydroxide 0.5 mol/l (N/2) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
480801		Plastic ampoule	Volume : 55 ml

**20 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,5 N**

**Sodium hydroxide 0.5 mol/l (N/2) > ERBApharm - Prepared from raw material according Ph.Eur****ERBApharm**

Identification (Ph.Eur).....Conform Assay (Ph.Eur).....0.475 - 0.525 N Origine (BSE-TSE).....Conform Residual solvents (Current ICH).....Conform

Code	Size	Packaging	Notes
524692	500 ml	Bottle	

**Sodium hydroxide 0.357 mol/l (0.357N)**

Sodio idrossido 0.357 mol/l (0.357N) • Sodium hydroxyde 0.357 mol/l (0.357N) • Sodio hidróxido 0.357 mol/l (0.357N)

Synonym:  
Caustic soda

NaOH Molecular Weight: 40 CAS: 1310-73-2	<b>Classification transport</b> ONU: 1824 Transport Hazard class: 8 Packing group III	<b>Warning</b> H315-H319 P280-P264-P305+P351+P338-P332+P313- P337+P313-P302+P352
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**Sodium hydroxide 0.357 mol/l (0.357N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.3566 - 0.3574 N NIST 84 .....

Code	Size	Packaging	Notes
480837000	1 l	Plastic bottle	

**14.28 g of NaOH. Volumetric solution ready-to-use : 1/2.82N. Traceable to NIST****Sodium hydroxide 0.25 mol/l (N/4)**

Sodio idrossido 0.25 mol/l (N/4) • Sodium hydroxyde 0.25 mol/l (N/4) • Sodio hidróxido 0.25 mol/l (N/4)

Synonym:  
Caustic soda

NaOH Molecular Weight: 40 CAS: 1310-73-2	<b>Classification transport</b> ONU: 1824 Transport Hazard class: 8 Packing group III	<b>Warning</b> H315-H319 P280-P264-P305+P351+P338-P332+P313- P337+P313-P302+P352
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**Sodium hydroxide 0.25 mol/l (N/4) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.2498 - 0.2503 N NIST 84 .....

Code	Size	Packaging	Notes
480867000	1 l	Plastic bottle	
480861000	5 l	Kubidos	
480862000	10 l	Kubidos	
480863000	25 l	Plastic tank	

**10 g of NaOH. Volumetric solution ready-to-use : 0.25N. Traceable to NIST****Sodium hydroxide 0.25 mol/l (N/4) > ERBApharm - Prepared from raw material according Ph.Eur****ERBApharm**

Colour ..... ≤ 100 APHA Assay ..... 0.2495 ÷ 0.2505 N

Code	Size	Packaging	Notes
369812	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20 °C. Keep tightly****Sodium hydroxide 0.2 mol/l (N/5)**

Sodio idrossido 0.2 mol/l (N/5) • Sodium hydroxyde 0.2 mol/l (N/5) • Sodio hidróxido 0.2 mol/l (N/5)

Synonym:  
Caustic soda

NaOH Molecular Weight: 40 CAS: 1310-73-2	<b>Classification transport</b> ONU: 1824 Transport Hazard class: 8 Packing group III	<b>Warning</b> H315-H319 P280-P264-P305+P351+P338-P332+P313- P337+P313-P302+P352
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**Sodium hydroxide 0.2 mol/l (N/5) > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid Colour ..... ≤ 10 APHA Assay ..... 0.19 ÷ 0.21 M

Code	Size	Packaging	Notes
502782	500 ml	Plastic bottle	
502781000	10 l	Plastic tank	

## Sodium hydroxide 0.2 mol/l (N/5) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.1998 - 0.2002 N

Code	Size	Packaging	Notes
P3440015	1 l	Plastic bottle	



## Sodium hydroxide 1/9 mol/l (N/9)

Sodio idrossido 1/9 mol/l (N/9) • Sodium hydroxyde 1/9 mol/l (N/9) • Sodio hidróxido 1/9 mol/l (N/9)

 Synonym:  
Caustic soda

 NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group III

**Warning**  
H315-H319  
P280-P264-P305+P351+P338-P332+P313-  
P337+P313-P302+P352

## Sodium hydroxide 1/9 mol/l (N/9) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.1109 - 0.1113 N

Code	Size	Packaging	Notes
P4500022	5 l	Plastic tank	



## Sodium hydroxide 0.1 mol/l (N/10)

Sodio idrossido 0.1 mol/l (N/10) • Sodium hydroxyde 0.1 mol/l (N/10) • Sodio hidróxido 0.1 mol/l (N/10)

 Synonym:  
Caustic soda

 NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

## Sodium hydroxide 0.1 mol/l (N/10) > RS - For analysis according to Ph. Eur. Chap. 4.2.2

**RS**

Code	Size	Packaging	Notes
613006601	500 ml	Plastic bottle	Ref Ph.Eur 3006600
613006600	1 l	Plastic bottle	Ref Ph.Eur 3006600

## Sodium hydroxide 0.1 mol/l (N/10) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 84 .....

Code	Size	Packaging	Notes
480897000	1 l	Plastic bottle	
480891000	5 l	Kubidos	
480892000	10 l	Kubidos	
480893000	10 l	Plastic tank	
480895000	50 l	Plastic drum	

**4 g of NaOH. Volumetric solution ready-to-use : 0.1N. Traceable to NIST**

## Sodium hydroxide 0.1 mol/l (N/10) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
480921		Plastic ampoule	Volume : 55 ml

**4 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**

## Sodium hydroxide 0.1 mol/l (N/10) > ERBapharm - Prepared from raw material according Ph.Eur

**ERBapharm**

Identification (Ph.Eur) ..... Conform Assay (Ph.Eur) ..... 0.095 - 0.105 N Origine (BSE-TSE) ..... Conform Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
524631	1 l	Plastic bottle	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**



### Sodium hydroxide 0.1 mol/l (0.1N) in ethanol

Sodio idrossido 0.1 mol/l (N/10) in etanolo • Sodium hydroxyde 0.1 mol/l (0.1N) dans l'éthanol • Sodio hidróxido 0.1 mol/l (N/10) en etanol

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

**Classification transport**  
ONU: 2733  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

#### Sodium hydroxide 0.1 mol/l (0.1N) in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2

RS

Code	Size	Packaging	Notes
613007001	100 ml	Glass bottle	Ref Ph.Eur 3007000
613007000	1 l	Glass bottle	Ref Ph.Eur 3007000



### Sodium hydroxide 0.01 mol/l (N/100)

Sodio idrossido 0.01 mol/l (N/100) • Sodium hydroxyde 0.01 mol/l (N/100) • Sodio hidróxido 0.01 mol/l (N/100)

Synonym:  
Caustic soda

NaOH  
Molecular Weight: 40  
CAS: 1310-73-2

HEU210

#### Sodium hydroxide 0.01 mol/l (N/100) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0215/15	1 l	Bottle	

#### Sodium hydroxide 0.01 mol/l (N/100) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
481001		Plastic ampoule	Volume : 55 ml

**0,4 g of NaOH. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**



### Sodium hydroxide-d 1 30%

Sodio idrossido-d 30% • Sodium hydroxyde-d 30% • Sodio hidróxido-d 30%

Synonym:  
Sodium deuterioxide solution

NaOD  
Molecular Weight: 41  
CAS: 14014-06-3  
EEC-N: 237-825-2

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II



**Danger**  
H300-H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

#### Sodium hydroxide-d 1 30% > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5675	25 ml	Glass bottle	



### Sodium hydroxide-d 1 mol/l

Sodio idrossido-d 1 mol/l • Sodium hydroxyde-d 1N • Sodio hidróxido-d 1 mol/l

Synonym:  
Sodium deuterioxide solution

NaOD  
Molecular Weight: 41  
CAS: 14014-06-3

**Classification transport**  
ONU: 1824  
Transport Hazard class: 8  
Packing group II

#### Sodium hydroxide-d 1 mol/l > RS - For NMR - min 99.8%

RS

Code	Size	Packaging	Notes
P5665	25 ml	Glass bottle	



## Sodium hypochlorite solution in water

Sodio ipoclorito soluzione in acqua • Sodium hypochlorite solution aqueuse • Sodio hipoclorito solución en agua

NaClO  
Molecular Weight: 74,44  
CAS: 7681-52-9

**Classification transport**  
ONU: 1791  
Transport Hazard class: 8  
Packing group III



**Warning**  
H315-H319-HEU031-HEU206  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

### Sodium hypochlorite solution in water > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611081609	250 ml	Glass bottle	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600
611081600	1 l	Glass bottle	Sodium hypochlorite solution, strong Ref Ph.Eur 1081600

### Sodium hypochlorite solution in water > RS - For analysis according to JP

RS

Code	Size	Packaging	Notes
616001008	100 ml	Glass bottle	Sodium hypochlorite TS

### Sodium hypochlorite solution in water > RS - For analysis according to USP

RS

Code	Size	Packaging	Notes
617000181	1 l	Glass bottle	

### Sodium hypochlorite solution in water > RPE - For analysis

RPE

Description ..... Yellow clear liquid  
Density at 20°C ..... ~ 1.1  
Alcalinity (NaOH)..... ≤1.8 % m/m

Cd ..... ≤10 ppm  
Cr ..... ≤10 ppm  
Cu ..... ≤10 ppm

Hg ..... ≤10 ppm  
Mn ..... ≤10 ppm  
Ni ..... ≤10 ppm

Zn ..... ≤10 ppm  
Assay (iodometric) ..... 5 ± 9 % (Cl)m/m

Code	Size	Packaging	Notes
481181	1 l	Plastic bottle	
481185	30 kg	Plastic drum	

Store at ambient temperature

### Sodium hypochlorite solution in water > RE - Pure

RE

Description ..... Yellow clear liquid  
Alcalinity (NaOH)..... ≤ 1.8 % m/m  
Assay (iodometric) ..... 5 - 9 % Cl  
Density at 20°C ..... 1.1 - 1.2

Code	Size	Packaging	Notes
370321	1 l	Plastic bottle	
370323	5 l	Plastic bottle	
370322	30 kg	Plastic drum	

Store at ambient temperature



## Sodium hypochlorite solution 12.5%

Sodio ipoclorito soluzione 12.5% • Sodium hypochlorite solution 12.5% • Sodio hipoclorito solución 12.5%

NaClO  
Molecular Weight: 74,44  
CAS: 7681-52-9

**Classification transport**  
ONU: 1791  
Transport Hazard class: 8  
Packing group III



**Danger**  
H290-H314-H335-H400-HEU031  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sodium hypochlorite solution 12.5% > RPE - For analysis

RPE

Appearance ..... Slight yellow liquid  
French chlorometric degree ..... ≥ 44 °  
Active chlorine percentage ..... ≥ 11.6 % (m/m)

Code	Size	Packaging	Notes
P9350015	1 l	Plastic bottle	
P9350046	1 l	Glass bottle PVC coated	
P9350049	25 l	Plastic tank	

Store at ambient temperature



**Sodium hypophosphite**

Sodio ipofosfito • Sodium hypophosphite • Sodio hipofosfito

NaH<sub>2</sub>PO<sub>2</sub>·H<sub>2</sub>O  
 Molecular Weight: 106,06  
 CAS: 10039-56-2  
 EEC-N: 231-669-9

**Sodium hypophosphite > RE - Pure****RE**

Description ..... Semitransparent crystals    Chloride ..... ≤100 ppm    Sulphate ..... ≤500 ppm    Fe ..... ≤50 ppm  
 Identification ..... Positive    Heavy metals (Pb) ..... ≤10 ppm    As ..... ≤2 ppm    Assay (oxidimetric) ..... ≥101 % t.q.

Code	Size	Packaging	Notes
481201	1 kg	Plastic bottle	
481202	5 kg	Plastic jar	

**Sodium iodide**

Sodio ioduro • Sodium iodure • Sodio yoduro

NaI  
 Molecular Weight: 149,89  
 CAS: 7681-82-5  
 EEC-N: 231-679-3

**Danger**

H334-H335-H315-H319-H317  
 P285-P261-P280-P305+P351+P338-P405-P501a

**Sodium iodide > RPE - For analysis****RPE**

Description ..... White crystals    Loss on drying ..... ≤ 2 %    Sulphate ..... ≤ 150 ppm    Assay (oxidimetric) ..... 99 ÷ 101.5 %  
 Identification ..... Positive    Iodate ..... ≤ 4 ppm    Fe ..... ≤ 20 ppm

Code	Size	Packaging	Notes
481163	50 g	Glass bottle	
481164	500 g	Plastic bottle	
481162	25 kg	Drum	

**Sodium iodide > ERBApharm - According to pharmacopoeia : BP-FU-Ph.Eur.-Ph.Franc.****ERBApharm**

Description ..... White crystalline powder    Appearance of solution ..... Conform Ph.Eur.    Loss on drying ..... ≤ 3.0 %    Fe ..... ≤ 20 ppm  
 Identification ..... Positive    Thiosulphate ..... Conform Ph.Eur.    Heavy metals (Pb) ..... ≤ 10 ppm    Assay (oxidimetric) ..... 99.0 ÷ 100.5 % s.s.  
 Alkalinity ..... Conform Ph.Eur.    Iodate ..... Conform Ph.Eur.    Sulphate ..... ≤ 150 ppm

Code	Size	Packaging	Notes
370305	250 g	Plastic bottle	
370307	1 kg	Plastic bottle	
370309	5 kg	Plastic jar	

**Sodium laurylsulfate**

Sodio laurilsolfato • Sodium laurylsulfate • Sodio laurilsulfato

Synonym:  
*Sodium dodecyl sulfate*  
*Dodecyl sodium sulfate*

CH<sub>3</sub>(CH<sub>2</sub>)<sub>11</sub>OSO<sub>3</sub>Na  
 Molecular Weight: 288,38  
 EEC-N: 273-257-1

**Danger**

H315-H318-H335-H412  
 P264-P273-P271-P280-P304+P340-  
 P305+P351+P338

**Sodium laurylsulfate > RS - For surfactants detection****RS**

Description ..... White crystalline powder    pH sol. 1% at 20°C ..... 8.5 ÷ 10.5    Assay (acidimetric) ..... ≥ 92.0 %  
 Identification (I.R.) ..... Positive    Free sulphate (Na<sub>2</sub>SO<sub>4</sub>) ..... ≤ 2.5 %

Code	Size	Packaging	Notes
481231	250 g	Plastic bottle	
481233	10 kg	Plastic bucket	
481235	25 kg	Drum	

## Sodium laurylsulfate > RPE - For analysis

**RPE**

Anionic surfactant ..... 93 - 98 %    Loss on drying ..... ≤ 1 %    NaCl ..... ≤ 1.5 %  
 Unsulphated matter ..... ≤ 1 %    Na<sub>2</sub>SO<sub>4</sub> ..... ≤ 3 %    pH (1% solution) ..... 8.5 - 10.5

Code	Size	Packaging	Notes
P7600513	100 g	Plastic bottle	
P7600514	500 g	Plastic bottle	
P7600517	1 kg	Plastic jar	



## Sodium metabisulfite

Sodio metabisulfito • Sodium métabisulfite • Sodio metabisulfito

 Synonym:  
*Sodium bisulfite*  
*Sodium hydrogensulfite*

Na<sub>2</sub>O<sub>3</sub>S<sub>2</sub>  
 Molecular Weight: 190,1  
 CAS: 7681-57-4  
 EEC-N: 231-673-0



### Danger

H302-H318-HEU031  
 P264-P280i-P270-P305+P351+P338-P330-  
 P301+P312a

## Sodium metabisulfite > RPE - For analysis - ACS

**RPE**

Description ..... White crystalline powder    Chloride ..... ≤ 0.05 %    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 20 ppm  
 Identification ..... Positive    Water-insoluble matter ..... ≤ 50 ppm    Thiosulphate ..... ≤ 0.05 %    Assay (oxidimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
481286	100 g	Plastic bottle	
481287	1 kg	Plastic bottle	
481288	2.5 kg	Plastic bottle	
481283	25 kg	Plastic bucket	

## Sodium metabisulfite > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.-FU

**ERBApharm**

Description ..... White crystalline powder    Chloride ..... ≤ 500 ppm    Fe ..... ≤ 20 ppm    Origin (BSE/TSE) ..... Synthesis  
 Identification ..... Positive    Thiosulphate ..... ≤ 500 ppm    Assay (oxidimetric) ..... 95.0 ÷ 100.5 %  
 Appearance of solution ..... Conform Ph.Eur.    Heavy metals (Pb) ..... ≤ 20 ppm    Assay (SO<sub>2</sub>) ..... 65.0 ÷ 67.4 %  
 pH solution 5% ..... 3.5 ÷ 5.0    As ..... ≤ 5 ppm    Residual solvents (Current ICH) ..... Conform

Code	Size	Packaging	Notes
370751	1 kg	Plastic bottle	
370752	2.5 kg	Plastic bottle	
370753	25 kg	Plastic bucket	



## Sodium metaperiodate

Sodio (meta)-periodato • Sodium m-périodate • Sodio metaperyodato

 Synonym:  
*Sodium (meta)periodate*  
*Sodium periodate*

NaIO<sub>4</sub>  
 Molecular Weight: 213,89  
 CAS: 7790-28-5  
 EEC-N: 232-197-6

### Classification transport

ONU: 1479  
 Transport Hazard class: 5.1  
 Packing group II



### Danger

H272-H315-H319-H335  
 P221-P264-P210a-P271-P304+P340-  
 P305+P351+P338

## Sodium metaperiodate > RPE - For analysis - ACS

**RPE**

Description ..... White crystalline powder    Other halogens (Cl) ..... ≤ 0.02 %    Assay (iodometric) ..... 99.8 ÷ 100.3 % (s.s.)  
 Identification ..... Positive    Mn ..... ≤ 3 ppm

Code	Size	Packaging	Notes
482234	100 g	Glass bottle	
482236	1 kg	Glass bottle	

**Sodium metaphosphate**

Sodio metafosfato • Sodium métaphosphate • Sodio metafosfato



Molecular Weight: 102,2

CAS: 10361-03-2

EEC-N: 233-782-9

**Sodium metaphosphate > RE - Pure****RE**

Description ..... White crystalline powder    Chloride ..... ≤500 ppm    Sulphate ..... ≤0.1 %    Assay ..... ≥68.0 % P205  
 Identification ..... Positive    Heavy metals (Pb) ..... ≤20 ppm    Fe ..... ≤500 ppm

Code	Size	Packaging	Notes
481557	1 kg	Plastic bottle	
481552	25 kg	Plastic bucket	

**Sodium methoxide 0.1 mol/l**

Sodio metossido 0.1 mol/l • Sodium méthanolate 0.1 mol/l • Sodio metóxido 0.1 mol/l

Synonym:

*Sodium methylate*

Molecular Weight: 54,02

CAS: 124-41-4

**Classification transport**

ONU: 1986

Transport Hazard class: 3

Packing group II

**Danger**

H225-H331-H370

P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

**Sodium methoxide 0.1 mol/l > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613007101	100 ml	Glass bottle	Ref Ph.Eur 3007100
613007100	1 l	Glass bottle	Ref Ph.Eur 3007100

**Sodium molybdate dihydrate**

Sodio molibdato diidrato • Sodium molybdate dihydraté • Sodio molibdato dihidrato

Synonym:

*Molybdic acid sodium salt dihydrate*

Molecular Weight: 241,95

CAS: 10102-40-6

EEC-N: 231-551-7

**Warning**

H315-H319-H335

P264-P271-P280-P304+P340-P305+P351+P338-P312a

**Sodium molybdate dihydrate > RPE - For analysis****RPE**

Description ..... White crystalline powder    Identification ..... Positive    Assay (oxidimetric) ..... > 99.0 %

Code	Size	Packaging	Notes
481684	100 g	Glass bottle	
481685	250 g	Plastic bottle	
481687	1 kg	Plastic bottle	



## Sodium nitrate

Sodio nitrato • Sodium nitrate • Sodio nitrato

NaNO<sub>3</sub>  
Molecular Weight: 84,99  
CAS: 7631-99-4  
EEC-N: 231-554-3

**Classification transport**  
ONU: 1498  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H302  
P221-P264-P210a-P280a-P220-P330

### Sodium nitrate > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

**RPE**

Description ..... White crystals  
Identification ..... Positive  
pH sol. 5% in H<sub>2</sub>O ..... 5.5 ÷ 8.3  
Water-insoluble matter ..... ≤ 50 ppm

Chloride ..... ≤ 10 ppm  
Phosphate ..... ≤ 5 ppm  
Iodate ..... ≤ 5 ppm  
Nitrite ..... ≤ 10 ppm

Sulphate ..... ≤ 30 ppm  
Heavy metals (Pb) ..... ≤ 5 ppm  
Fe ..... ≤ 3 ppm  
Assay (acidimetric) ..... ≥ 99.0 %

Ca ..... ≤ 50 ppm  
Mg ..... ≤ 20 ppm

Code	Size	Packaging	Notes
481755	100 g	Plastic bottle	
481756	500 g	Plastic bottle	
481757	1 kg	Plastic bottle	
481759	5 kg	Plastic jar	
481751	25 kg	Drum	

### Sodium nitrate > RE - Pure

**RE**

Description ..... Yellowish crystals  
Identification ..... Positive

Chloride ..... ≤ 0.5 %  
Water-insoluble matter ..... ≤ 500 ppm

Heavy metals (Pb) ..... ≤ 50 ppm  
Sulphate ..... ≤ 0.5 %

Fe ..... ≤ 50 ppm  
Assay (non-aqueous medium) ..... ≥ 96 %

Code	Size	Packaging	Notes
371809	5 kg	Plastic jar	
371802	25 kg	Plastic bucket	
371804	50 kg	Fibre drum	



## Sodium nitrite

Sodio nitrito • Sodium nitrite • Sodio nitrito

NaNO<sub>2</sub>  
Molecular Weight: 68,99  
CAS: 7632-00-0  
EEC-N: 231-555-9

**Classification transport**  
ONU: 1500  
Transport Hazard class: 5.1  
Packing group III



**Danger**  
H272-H301-H400  
P221-P264-P273-P210a-P280a-P301+P310a

### Sodium nitrite > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... Yellow crystals  
Identification ..... Positive  
Water-insoluble matter ..... ≤ 100 ppm

Chloride ..... ≤ 50 ppm  
Sulphate ..... ≤ 100 ppm  
Heavy metals (Pb) ..... ≤ 10 ppm

Ca ..... ≤ 100 ppm  
Fe ..... ≤ 10 ppm  
K ..... ≤ 50 ppm

Assay (oxidimetric) ..... ≥ 97.0 %

Code	Size	Packaging	Notes
481825	100 g	Plastic bottle	
481826	500 g	Plastic bottle	
481827	1 kg	Plastic bottle	
481829	5 kg	Plastic jar	

### Sodium nitrite > ERBapharm - According to pharmacopoeia : USP-BP

**ERBapharm**

Description ..... Yellow crystals  
Identification ..... Positive

Loss on drying ..... ≤ 0.25 %  
Heavy metals (Pb) ..... ≤ 20 ppm

Assay (oxidimetric) ..... 97.0 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
371901	1 kg	Plastic bottle	
371902	5 kg	Plastic jar	
371903	25 kg	Plastic bucket	

### Sodium nitrite > RE - Pure

**RE**

Description ..... Yellow crystals  
Identification ..... Positive

Chloride ..... ≤ 0.1 %  
Heavy metals (Pb) ..... ≤ 50 ppm

Sulphate ..... ≤ 0.1 %  
Fe ..... ≤ 50 ppm

Assay (oxidimetric) ..... ≥ 95 %

Code	Size	Packaging	Notes
372109	5 kg	Plastic jar	

**Sodium nitrite 0.1 mol/l (0.1N)**

Sodio nitrito 0.1 mol/l (0.1N) • Sodium nitrite 0.1 mol/l (0.1N) • Sodio nitrito 0.1 mol/l (0.1N)

NaNO<sub>2</sub>  
Molecular Weight: 68,99  
CAS: 7632-00-0**Sodium nitrite 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2**

RS

Code	Size	Packaging	Notes
613007200	1 l	Plastic bottle	Ref Ph.Eur 3007200

**Sodium nitrite solution 500 g/l**

Sodio nitrito 500 g/l soluzione • Sodium nitrite 500g/l • Sodio nitrito solución 500 g/L

NaNO<sub>2</sub>  
Molecular Weight: 68,99  
CAS: 7632-00-0**Classification transport**  
ONU: 3219  
Transport Hazard class: 5.1  
Packing group III**Danger**  
H272-H301-H400  
P210-P221-P264-P273-P280-P301+P310a**Sodium nitrite solution 500 g/l > RPE - For analysis**

RPE

Assay .....490 - 510 g/L

Code	Size	Packaging	Notes
524725	2 l	Bottle	

**Sodium nitroprusside dihydrate**

Sodio nitroprussiato diidrato • Sodium nitroprussiate dihydraté • Sodio nitroprussiato diidrato

Na<sub>2</sub>Fe(CN)<sub>5</sub>NO·2H<sub>2</sub>O  
Molecular Weight: 297,95  
CAS: 13755-38-9  
EEC-N: 238-373-9**Classification transport**  
ONU: 3288  
Transport Hazard class: 6.1  
Packing group III**Danger**  
H301-H331  
P270-P301+P310a-P330-P403+P233-P405-P501a**Sodium nitroprusside dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP**

RPE

Description .....Red brick crystals Chloride..... ≤ 200 ppm Not soluble matter ..... ≤ 0.01 %  
Identification ..... Positive Sulphate..... Conform

Code	Size	Packaging	Notes
481932	50 g	Glass bottle	
481934	100 g	Glass bottle	

**Sodium 1-octanesulfonate monohydrate ▶ 1-Octanesulfonic acid sodium salt monohydrate****Sodium oxalate**

Sodio ossalato • Sodium oxalate • Sodio oxalato

Synonym:  
Ethandioic acid sodium salt  
Oxalic acid disodium salt(COONa)<sub>2</sub>  
Molecular Weight: 134  
CAS: 62-76-0  
EEC-N: 200-550-3**Warning**  
H302-H312  
P264-P280h-P270-P330-P301+P312a-P302+P352a**Sodium oxalate > RS - Standard for volumetry**

RS

Description .....White crystalline powder Identification ..... Positive Assay ..... ≥99.8 %

Code	Size	Packaging	Notes
482101	50 g	Glass bottle	

## Sodium oxalate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	White crystalline powder	Loss on drying .....	≤100 ppm	Sulphate .....	≤20 ppm	Assay (oxidimetric) .....	≥99.5 %
Identification .....	Positive	Water-insoluble matter .....	≤50 ppm	Heavy metals (Pb) .....	≤20 ppm		
Neutrality .....	Conform	Ammonium .....	≤20 ppm	Fe .....	≤10 ppm		
Ready carbonizable substances .....	Conform	Chloride .....	≤20 ppm	K .....	≤50 ppm		

Code	Size	Packaging	Notes
482064	100 g	Plastic bottle	
482065	250 g	Plastic bottle	
482067	1 kg	Plastic bottle	

## Sodium oxalate > RE - Pure

**RE**

Description .....	White crystalline powder	Chloride .....	≤ 300 ppm	Fe .....	≤ 100 ppm
Identification .....	Positive	Sulphate .....	≤ 100 ppm	Assay (oxidimetric) .....	94 ± 96 %

Code	Size	Packaging	Notes
372201	1 kg	Plastic bottle	
372203	5 kg	Plastic jar	

## Sodium 1-pentanesulfonate ► 1-Pentanesulphonic acid sodium salt

## Sodium 1-pentanesulfonate monohydrate ► 1-Pentanesulphonic acid sodium salt monohydrate



## Sodium perborate tetrahydrate

Sodio perborato tetraidrato • Sodium perborate tétrahydraté • Sodio perborato tetrahidratado

NaBO<sub>3</sub>·4H<sub>2</sub>O  
Molecular Weight: 153,88  
CAS: 10486-00-7  
EEC-N: 231-556-4


**Danger**

H318-H360Df-H335-HA26  
P271-P261-P304+P340-P305+P351+P338-P308+P313-P403+P233

## Sodium perborate tetrahydrate > RE - Pure

**RE**

Description .....	White crystalline powder	Chloride .....	≤500 ppm	Sulphate .....	≤0.1 %	Fe .....	≤500 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤100 ppm	As .....	≤20 ppm	Assay (oxidimetric) .....	≥96 %

Code	Size	Packaging	Notes
482183	1 kg	Plastic bottle	
482185	5 kg	Plastic jar	
482187	25 kg	Plastic bucket	



## Sodium perchlorate monohydrate

Sodio perclorato monidrato • Sodium perchlorate monohydraté • Sodio perclorato

Synonym:  
*Hyperchloric acid sodium salt*

NaClO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight: 140,46  
CAS: 7791-07-3  
EEC-N: 231-511-9

**Classification transport**

ONU: 1502  
Transport Hazard class: 5.1  
Packing group II


**Danger**

H272-H302  
P221-P264-P210a-P280a-P220-P330

## Sodium perchlorate monohydrate > RPE - For analysis

**RPE**

Description .....	White crystal	Chloride .....	≤ 50 ppm	Heavy metals (Pb) .....	≤ 10 ppm	Fe .....	≤ 50 ppm
Identification (I.R.) .....	Positive	Chlorates .....	≤ 0.10 %	Sulfate .....	≤ 50 ppm	Assay .....	≥ 99.0 %

Code	Size	Packaging	Notes
482204	250 g	Glass bottle	

**Sodium peroxide**

Sodio perossido • Sodium peroxyde • Sodio peróxido

Synonym:  
Sodium superoxideNa<sub>2</sub>O<sub>2</sub>  
Molecular Weight: 77,98  
CAS: 1313-60-6  
EEC-N: 215-209-4**Classification transport**  
ONU: 1504  
Transport Hazard class: 5.1  
Packing group I**Danger**  
H271-H314  
P280-P301+P330+P331-P304+P340-  
P305+P351+P338-P371+P380+P375-P302+P352b**Sodium peroxide > RPE - For analysis****RPE**Description ..... Pale yellow powder    Chloride ..... ≤40 ppm    Ca ..... ≤500 ppm    Pb ..... ≤20 ppm  
Identification ..... Positive    Phosphate ..... ≤20 ppm    Fe ..... ≤20 ppm    Assay (oxidimetric) ..... ≥97 %  
Total nitrogen ..... ≤20 ppm    Total sulphur ..... ≤200 ppm    K ..... ≤200 ppm

Code	Size	Packaging	Notes
482252	1 kg	Metallic can	

**Sodium persulfate**

Sodio persolfato • Sodium persulfate • Sodio persulfato

Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
Molecular Weight: 238.10  
CAS: 7775-27-1  
EEC-N: 231-892-1**Classification transport**  
ONU: 1505  
Transport Hazard class: 5.1  
Packing group III**Danger**  
H272-H302-H315-H319-H334-H317-H335  
P221-P264-P210a-P304+P340-P305+P351+P338-  
P342+P311a**Sodium persulfate > RE - Pure****RE**Description ..... White crystalline powder    Ammonium ..... ≤0.1 %    Heavy metals (Pb) ..... ≤20 ppm    Assay (oxidimetric) ..... ≥97 %  
Identification ..... Positive    Chloride ..... ≤50 ppm    Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
482365	250 g	Plastic bottle	
482367	2.5 kg	Plastic bottle	
482363	25 kg	Plastic bucket	

**Sodium persulfate 1 mol/l**

Sodio persolfato 1 mol/l • Sodium persulfate 1 mol/l • Sodio persulfato 1 mol/l

Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
Molecular Weight: 238.10  
CAS: 7775-27-1**Classification transport**  
ONU: 3216  
Transport Hazard class: 5.1  
Packing group III**Danger**  
H272-H315-H319-H334-H317  
P221-P221-P264-P304+P340-P305+P351+P338-  
P342+P311a**Sodium persulfate 1 mol/l > RPE - For analysis****RPE**

Refractive index at 20°C ..... 1.35 - 1.354

Code	Size	Packaging	Notes
PS0083/41	10 l	Plastic tank	
PS0083/42	20 l	Plastic tank	



## Sodium phosphate dibasic anhydrous

Sodio fosfato bibasico anidro • Sodium phosphate dibasique anhydre • Sodio fosfato dibásico anhidro

Synonym:

*Disodium hydrogen phosphate*



Molecular Weight: 141,96

CAS: 7558-79-4

EEC-N: 231-448-7

### Sodium phosphate dibasic anhydrous > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	White powder	Loss on drying .....	≤ 0.2 %	Heavy metals (Pb).....	≤ 10 ppm	Assay (alkalimetric).....	≥ 99.0 %
Identification .....	Positive	Chloride.....	≤ 20 ppm	Sulphate .....	≤ 50 ppm		
pH sol. 5% at 25° C .....	8.7 ÷ 9.3	Water-insoluble matter .....	≤ 100 ppm	Fe .....	≤ 20 ppm		

Code	Size	Packaging	Notes
480143	100 g	Plastic bottle	
480144	500 g	Plastic bottle	
480141	1 kg	Plastic bottle	
480142	5 kg	Plastic jar	

### Sodium phosphate dibasic anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

**ERBApharm**

Description .....	White powder	Fosfato monobasico .....	Conform Ph.Eur.	Chloride.....	≤ 200 ppm	Heavy metals (Pb).....	≤ 10 ppm
Identification .....	Positive	Origin (BSE/TSE).....	Synthesis	Sulphate .....	≤ 500 ppm	Loss on drying at 105°C.....	≤ 1.0 %
Appearance of solution.....	Conform Ph.Eur.	Residual solvents (Current ICH).....	Conform	As .....	≤ 2 ppm	Assay (potentiometric) 98.0 ÷ 100.5 % s.s.	
Reducing substances .....	Conform Ph.Eur.	Not soluble matter .....	≤ 0.4 %	Fe .....	≤ 20 ppm	Loss on drying at 130°C.....	≤ 5.0 %

Code	Size	Packaging	Notes
369212	1 kg	Plastic bottle	
369213	5 kg	Plastic bucket	
369211	25 kg	Plastic bucket	



## Sodium phosphate dibasic dihydrate

Sodio fosfato bibasico biidrato • Sodium phosphate dibasique dihydraté • Sodio fosfato dibásico dihidrato

Synonym:

*Disodium hydrogen phosphate dihydrate*



Molecular Weight: 177,99

CAS: 10028-24-7

EEC-N: 231-448-7

### Sodium phosphate dibasic dihydrate > RPE - For analysis

**RPE**

Description .....	White crystalline powder	Water-insoluble matter .....	≤ 50 ppm	Pb .....	≤ 1 ppm	Ammonium .....	≤ 10 ppm
Identification .....	Positive	Heavy metals (Pb).....	≤ 10 ppm	Assay (potentiometric) .....	98.0 ÷ 100.5 %	Reducing substances .....	Conform
Loss on drying .....	18.5 ÷ 21.5 %	Sulphate .....	≤ 50 ppm	Loss on ignition.....	25.1 ÷ 25.5 %	Sodium dihydrogen phosphate .....	≤ 2.5 %
Chloride.....	≤ 10 ppm	As .....	≤ 1 ppm	pH solution 1% .....	9.0 ÷ 9.3		
Fluoride .....	≤ 3 ppm	Fe .....	≤ 5 ppm	Hg .....	≤ 1 ppm		

Code	Size	Packaging	Notes
480225	100 g	Plastic bottle	
480226	500 g	Plastic bottle	
480227	1 kg	Plastic bottle	
480222	5 kg	Plastic jar	

### Sodium phosphate dibasic dihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

**ERBApharm**

Description .....	White crystalline powder	Fosfato monosodico .....	≤ 2.5 %	Heavy metals (Pb).....	≤ 20 ppm	Titolo ( alcalimetrico ).....	98.0 ÷ 100.5 % s.s.
Identification .....	Positive	Water not sol. matter .....	≤ 0.4 %	As .....	≤ 4 ppm		
Appearance of solution.....	Conform Ph.Eur.	Chloride.....	≤ 400 ppm	Fe .....	≤ 40 ppm		
Reducing substances .....	Conform Ph.Eur.	Sulphate .....	≤ 0.1 %	Loss on drying 130° C.....	19.5 ÷ 21.0 %		

Code	Size	Packaging	Notes
369185	5 kg	Plastic jar	



**Sodium phosphate dibasic dodecahydrate**

Sodio fosfato bibasico dodecaidrato • Sodium phosphate dibasique dodécahydraté • Sodio fosfato dibasico dodecahidrato

Synonym:

*Disodium hydrogen phosphate dodecahydrate*

$\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$   
 Molecular Weight: 358,14  
 CAS: 10039-32-4  
 EEC-N: 231-448-7

**Sodium phosphate dibasic dodecahydrate > RPE - For analysis****RPE**

Description ..White or gray crystalline mass	Heavy metals (Pb).....≤ 5 ppm	Fe .....≤ 5 ppm	Assay (potentiometric) .....98 ÷ 102 %
Identification .....Positive	Sulphate .....≤ 50 ppm	K.....≤ 100 ppm	Mono or Tribasic salt .....Conform
pH sol. 5% at 25° C .....9.0 ÷ 9.4	As .....≤ 0.5 ppm	Mg .....≤ 10 ppm	Co.....≤ 5 ppm
Total nitrogen.....≤ 10 ppm	Ca.....≤ 10 ppm	Ni.....≤ 5 ppm	Cr.....≤ 5 ppm
Chloride.....≤ 5 ppm	Cd.....≤ 5 ppm	Pb .....≤ 5 ppm	Mn .....≤ 5 ppm
Water-insoluble matter .....≤ 50 ppm	Cu.....≤ 5 ppm	Zn .....≤ 5 ppm	

Code	Size	Packaging	Notes
480133	100 g	Plastic bottle	
480136	500 g	Plastic bottle	
480137	1 kg	Plastic bottle	
480131	5 kg	Plastic jar	
480132	10 kg	Plastic bucket	
480135	25 kg	Plastic bucket	
480134	50 kg	Fibre drum	

**Sodium phosphate dibasic dodecahydrate > ERBApharm - According to pharmacopoeia : BP-DAB-FU-Ph.****ERBApharm**

Eur.-Ph.Franc.-USP

Description .....White crystals	Monobasic phosphate.....Conform Ph.Eur.	Sulphate .....≤500 ppm	Not soluble matter .....≤ 0.4 %
Identification .....Positive	Water (K.F) .....57.0 ÷ 61.0 %	As .....≤2 ppm	Loss on drying 130° C.....55.0 ÷ 64.0 %
Appearance of solution .....Conform Ph.Eur.	Chloride.....≤200 ppm	Fe .....≤20 ppm	
Reducing substances .....Conform Ph.Eur.	Heavy metals (Pb).....≤10 ppm	Assay (alkalimetric).....98.5 ÷ 100.5 % s.s.	

Code	Size	Packaging	Notes
369158	1 kg	Plastic bottle	
369159	5 kg	Plastic jar	
369152	25 kg	Plastic bucket	
369154	50 Kg	Fibre drum	

**Sodium phosphate dibasic**

Sodio fosfato bibasico • Sodium phosphate dibasique • Sodio fosfato dibásico

Synonym:

*Disodium hydrogen phosphate*

$\text{Na}_2\text{HPO}_4$   
 Molecular Weight: 141,96  
 CAS: 7558-79-4  
 EEC-N: 231-448-7

**Sodium phosphate dibasic > RE - Pure****RE**

Description .....White powder	Chloride.....≤500 ppm	As .....≤10 ppm
Identification .....Positive	Heavy metals (Pb).....≤50 ppm	Fe .....≤200 ppm
Loss on drying .....≤8 %	Sulphate .....≤0.5 %	Assay (acidimetric) .....≥92.0 %

Code	Size	Packaging	Notes
369257	1 kg	Plastic bottle	
369258	5 kg	Plastic jar	
369252	25 kg	Plastic bucket	



## Sodium phosphate monobasic dihydrate

Sodio fosfato monobásico bihidrato • Sodium phosphate monobasic dihydrate • Sodio fosfato monobásico dihidrato

Synonym:  
Sodium dihydrogen phosphate dihydrate

$\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$   
Molecular Weight: 156,01  
CAS: 13472-35-0  
EEC-N: 231-449-1

### Sodium phosphate monobasic dihydrate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP

**ERBApharm**

Description .....	White crystalline powder	Al, Ca and related sub. ....	Conform USP-NF	Chloride.....	≤140 ppm	As .....	≤2 ppm
Identification .....	Positive	pH solution 5% .....	4.2 ÷ 4.5	Heavy metals (Pb).....	≤10 ppm	Fe .....	≤10 ppm
Appearance of solution .....	Conform Ph.Eur.	Water (K.F.) .....	18.0 ÷ 26.5 %	Sulphate .....	≤300 ppm	Assay (alkalimetric).....	98.0 ÷ 100.5 % s.s.
Reducing substances .....	Conform Ph.Eur.	Loss on drying 130° C.....	21.5 ÷ 24.0 %	Not soluble matter.....	≤0.2 %		

Code	Size	Packaging	Notes
369138	1 kg	Plastic bottle	
369139	5 kg	Plastic jar	
369132	25 kg	Plastic bucket	



## Sodium phosphate monobasic monohydrate

Sodio fosfato monobásico monohidrato • Sodium phosphate monobasic monohydrate • Sodio fosfato monobásico monohidrato

Synonym:  
Monosodium phosphate  
Sodium dihydrogen phosphate monohydrate

$\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$   
Molecular Weight: 137,99  
CAS: 10049-21-5  
EEC-N: 231-449-2

### Sodium phosphate monobasic monohydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	White crystalline powder	Water-insoluble matter .....	≤ 100 ppm	Sulphate .....	≤ 30 ppm	K .....	≤ 100 ppm
Identification .....	Positive	Chloride.....	≤ 5 ppm	Ca.....	≤ 50 ppm	Assay .....	98.0 ÷ 102.0 %
pH sol. 5% in H <sub>2</sub> O.....	4.1 ÷ 4.5	Heavy metals (Pb).....	≤ 10 ppm	Fe .....	≤ 10 ppm		

Code	Size	Packaging	Notes
480085	100 g	Plastic bottle	
480086	500 g	Plastic bottle	
480087	1 kg	Plastic bottle	
480082	5 kg	Plastic jar	
480081	25 kg	Plastic bucket	

### Sodium phosphate monobasic monohydrate > ERBApharm - According to pharmacopoeia : USP

**ERBApharm**

Description .....	White crystalline powder	Water (K.F.) .....	10.0 ÷ 15.0 %	As .....	≤8 ppm	Conform	
Identification .....	Positive	Chloride.....	≤140 ppm	Assay (alkalimetric).....	98.0 ÷ 103.0 % s.s.	Heavy metals (Pb).....	≤ 20 ppm
Al, Ca and related sub. ....	Conform USP-NF	Sulphate .....	≤0.15 %	Origin (BSE/TSE).....	Synthesis		
pH (1:20) .....	4.1 ÷ 4.5	Not soluble matter .....	≤0.2 %	Residual solvents (CPMP/ICH/283/95) .....			

Code	Size	Packaging	Notes
369143	1 kg	Plastic bottle	
369141	5 kg	Plastic jar	
369142	25 kg	Sack	

**Sodium phosphate tribasic dodecahydrate**

Sodio fosfato tribásico dodecaidrato • Sodium phosphate tribasique dodécahydraté • Sodio fosfato tribásico dodecahidratado

Synonym:  
Trisodium phosphate dodecahydrate  
TSPNa<sub>3</sub>PO<sub>4</sub>·12H<sub>2</sub>O  
Molecular Weight: 380,12  
CAS: 10101-89-0  
EEC-N: 231-509-8**Warning**H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a**Sodium phosphate tribasic dodecahydrate > RS - Nuclear****RS**Identification ..... Positive Chloride ..... ≤ 20 ppm Heavy metals ..... ≤ 10 ppm Insoluble matter ..... ≤ 50 ppm  
Assay ..... ≥ 98 % Fluoride ..... ≤ 20 ppm Sulphate ..... ≤ 50 ppm

Code	Size	Packaging	Notes
526001	25 kg	Drum	

**Sodium phosphate tribasic dodecahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP****RPE**Description ..... White crystals Water-insoluble matter ..... ≤ 100 ppm Heavy metals (Pb) ..... ≤ 10 ppm  
Identification ..... Positive Chloride ..... ≤ 10 ppm Fe ..... ≤ 10 ppm  
Free alkalis (NaOH) ..... ≤ 2.5 % Sulphate ..... ≤ 100 ppm Assay (alkalimetric) ..... 98.0 ÷ 102.0 %

Code	Size	Packaging	Notes
480275	100 g	Plastic bottle	
480276	500 g	Plastic bottle	
480277	1 kg	Plastic bottle	
480272	5 kg	Plastic jar	
480271	25 kg	Fibre drum	

**Sodium phosphate tribasic dodecahydrate > RE - Pure****RE**Description ..... White powder pH sol. 1% ..... 11.8 ÷ 12.5 Assay (alkalimetric) ..... ≥ 95.0 %  
Identification ..... Positive Water-insoluble matter ..... ≤ 0.2 %

Code	Size	Packaging	Notes
369309	5 kg	Plastic jar	
369301	25 kg	Plastic bucket	

**Sodium o-Phosphite pentahydrate**

Sodio o-fosfito pentaidrato • Sodium o-Phosphite pentahydraté • Sodio o-Fosfito pentahidratado

Synonym:  
Sodium phosphite dibasic pentahydrate  
di-Sodium hydrogen phosphiteNa<sub>2</sub>HPO<sub>3</sub>·5H<sub>2</sub>O  
Molecular Weight: 216.04  
CAS: 13517-23-2**Sodium o-Phosphite pentahydrate > RPE - For analysis****RPE**Description ..... White crystalline powder Water solution 20% ..... Complete Water ..... 38.0 ÷ 45.0 % Assay (oxidimetric) ..... 97.0 ÷ 102.0 %  
Identification ..... Positive pH 10% at 25° C ..... 8.5 ÷ 9.5 Heavy metals (Pb) ..... ≤ 25 ppm

Code	Size	Packaging	Notes
482042	25 kg	Plastic bucket	
482041	50 kg	Fibre drum	



## Sodium pyrophosphate decahydrate

Sodio pirofosfato decaidrato • Sodium pyrophosphate décahydraté • Sodio pirofosfato decahidrato

Synonym:

*Sodium pyrophosphate tetrabasic decahydrate*

$\text{Na}_4\text{P}_2\text{O}_7 \cdot 10\text{H}_2\text{O}$   
Molecular Weight: 446,06  
CAS: 13472-36-1  
EEC-N: 231-767-1



### Warning

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-P332+P313

### Sodium pyrophosphate decahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description ..... White crystals      Total nitrogen ..... ≤10 ppm      Heavy metals (Pb) ..... ≤10 ppm      Assay (acidimetric) ..... 99.0 ÷ 103.0 %  
Identification ..... Positive      Chloride ..... ≤20 ppm      Sulphate ..... ≤50 ppm  
pH sol. 5% at 25° C ..... 9.5 ÷ 10.5      Water-insoluble matter ..... ≤100 ppm      Fe ..... ≤10 ppm

Code	Size	Packaging	Notes
482426	100 g	Plastic bottle	
482427	1 kg	Plastic bottle	
482422	10 kg	Carton box	
482421	25 kg	Drum	



## Sodium salicylate

Sodio salicilato • Sodium salicylate • Sodio salicilato

Synonym:

*Salicylic acid sodium salt  
Sodium-2-hydroxybenzoate*

$\text{HO}_2\text{C}_6\text{H}_4\text{COONa}$   
Molecular Weight: 160,11  
CAS: 54-21-7  
EEC-N: 200-198-0



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### Sodium salicylate > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

**ERBApharm**

Description ..... White crystalline powder      Acidity ..... Conform Ph.Eur.      Loss on drying ..... ≤ 0.5 %      Sulphate ..... ≤ 0.06 %  
Identification ..... Positive      Sulphite+thiosul. (SO<sub>2</sub>).... Conform USP-NF      Chloride ..... ≤ 0.02 %      Assay (non-aqueous medium) .99.0 ÷ 100.5 % s.s.  
Appearance of solution ..... Conform Ph.Eur.      Organic volatile impurities Conform USP-NF      Heavy metals (Pb) ..... ≤ 20 ppm      Water (K.F.) ..... ≤ 0.5 %

Code	Size	Packaging	Notes
373607	1 kg	Plastic bottle	
373608	5 kg	Plastic jar	
373603	25 kg	Plastic bucket	



## Sodium silicate

Sodio silicato • Sodium silicate • Sodio silicato

Synonym:

*Water glass*

$\text{Na}_2\text{O} \cdot x\text{SiO}_2$   
Molecular Weight: 182,13 (an.)  
CAS: 1344-09-8  
EEC-N: 215-687-4



### Danger

H302-H315-H318-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P330

### Sodium silicate > RE - Pure

**RE**

Description ..... White powder      Identification ..... Positive      Loss on ignition ..... ≤21 %      Assay(Na<sub>2</sub>O 2SiO<sub>2</sub> anydr) ..... ≥72 %

Code	Size	Packaging	Notes
373908	2.5 kg	Plastic bucket	
373909	5 kg	Plastic jar	
373902	25 kg	Fibre drum	

**Sodium succinate hexahydrate**

Sodio succinato esaidrato • Sodium succinate hexahydraté • Sodio succinato hexahidratado

Synonym:

*Butanedioic acid disodium salt**Succinic acid disodium salt* $(\text{CH}_2\text{COONa})_2 \cdot 6\text{H}_2\text{O}$ 

Molecular Weight: 270,15

CAS: 6106-21-4

EEC-N: 205-778-7

**Sodium succinate hexahydrate > RPE - For analysis****RPE**

Description .....	White crystalline powder	Phosphate .....	≤20 ppm	Ca .....	≤50 ppm	Pb .....	≤2 ppm
Identification .....	Positive	Water-insoluble matter .....	≤50 ppm	Cu .....	≤2 ppm	Zn .....	≤2 ppm
pH sol. 5% at 25° C .....	8.4 ÷ 9.2	Heavy metals (Pb) .....	≤5 ppm	Fe .....	≤5 ppm	Assay (non-aqueous medium) .....	≥99 %
Ammonium .....	≤10 ppm	Sulphate .....	≤50 ppm	K .....	≤50 ppm		
Chloride .....	≤10 ppm	As .....	≤1 ppm	Ni .....	≤2 ppm		

Code	Size	Packaging	Notes
483554	100 g	Plastic bottle	
483555	250 g	Plastic bottle	
483557	2.5 kg	Plastic jar	
483551	25 kg	Fibre drum	

**Sodium sulfate anhydrous**

Sodio solfato anidro • Sodium sulfate anhydre • Sodio solfato anhidro

 $\text{Na}_2\text{SO}_4$ 

Molecular Weight: 142,04

CAS: 7757-82-6

EEC-N: 231-820-9

**Sodium sulfate anhydrous > RS - For anhydriification****RS**

Description .....	White crystalline powder	Loss on drying 130°C .....	≤ 1 %	NaCl .....	≤ 0.25 %	Assay (acidimetric) .....	≥ 99 %
Identification .....	Positive	pH (10% solution) .....	6 - 10	Fe .....	≤ 5 ppm		

Code	Size	Packaging	Notes
P1320017	1 kg	Plastic bottle	
P1320027	5 kg	Plastic jar	
P1320044	25 kg	Plastic bucket	

**Sodium sulfate anhydrous > RS - For residual pesticides analysis****RS**

Description .....	White crystalline powder	Loss on ignition .....	≤0.5 %	Chloride .....	≤10 ppm	As .....	≤1 ppm
Identification .....	Positive	Total nitrogen .....	≤5 ppm	Water-insoluble matter .....	≤50 ppm	Fe .....	≤10 ppm
pH sol. 5% in H <sub>2</sub> O .....	5.2 ÷ 9.2	Calcium + Magnesium .....	≤ 150 ppm	Heavy metals (Pb) .....	≤5 ppm	Assay (acidimetric) .....	≥99.0 %

Code	Size	Packaging	Notes
483025	500 g	Glass bottle	

**Sodium sulfate anhydrous > RPE - Powder - For analysis - ACS - ISO****RPE**

Description .....	White crystalline powder	Water-insoluble matter .....	≤100 ppm	Heavy metals (Pb) .....	≤5 ppm	Mg .....	≤50 ppm
Identification .....	Positive	Total nitrogen .....	≤5 ppm	Ca .....	≤100 ppm	Assay (acidimetric) .....	≥99.0 %
pH sol. 5% in H <sub>2</sub> O .....	5.2 ÷ 9.2	Chloride .....	≤10 ppm	Fe .....	≤10 ppm		
Loss on ignition .....	≤0.5 %	Phosphate .....	≤10 ppm	K .....	≤100 ppm		

Code	Size	Packaging	Notes
483006	100 g	Plastic bottle	
483005	500 g	Plastic bottle	
483007	1 kg	Plastic bottle	
483009	5 kg	Plastic jar	
483001	25 kg	Plastic bucket	

## Sodium sulfate anhydrous > RPE - Crystals - For analysis - ACS - ISO

**RPE**

Description .....	White crystals	Total nitrogen .....	≤ 5 ppm	Heavy metals (Pb).....	≤ 5 ppm	Mg .....	≤ 50 ppm
Identification .....	Positive	Phosphate .....	≤ 10 ppm	Ca .....	≤ 100 ppm	Assay (acidimetric) .....	≥ 99.0 %
pH sol. 5% in H2O.....	5.2 ÷ 9.2	Chloride.....	≤ 10 ppm	Fe .....	≤ 10 ppm		
Loss on ignition .....	≤ 0.5 %	Water-insoluble matter .....	≤ 100 ppm	K.....	≤ 100 ppm		

Code	Size	Packaging	Notes
483017	1 kg	Plastic bottle	
483019	5 kg	Plastic jar	
483011	25 kg	Fibre drum	

## Sodium sulfate anhydrous > ERBApharm - According to pharmacopoeia : Ph.Eur.

**ERBApharm**

Description .....	White powder	Chloride.....	≤ 0.045 %	Mg .....	≤ 0.02 %	Residual solvents (Current ICH).....	Conform
Identification .....	Positive	Heavy metals (Pb).....	≤ 45 ppm	Loss on drying 130°C.....	≤ 0.5 %		
Appearance of solution .....	Conform Ph. Eur.	Ca .....	≤ 0.045 %	Assay .....	98.5 ÷ 101.0 %		
Acidity or alkalinity.....	Conform Ph.Eur.	Fe .....	≤ 90 ppm	Origin (BSE/TSE).....	Synthesis		

Code	Size	Packaging	Notes
375713	1 kg	Plastic bottle	
375716	25 kg	Fibre drum	



## Sodium sulfate decahydrate

Sodio solfato decaidrato • Sodium sulfate décahydraté • Sodio sulfato decahidrato

 Synonym:  
Glauber's salt

$\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$   
 Molecular Weight: 322,19  
 CAS: 7727-73-3  
 EEC-N: 231-820-9

## Sodium sulfate decahydrate > RPE - For analysis - ACS

**RPE**

Description .....	White crystals	Chloride.....	≤ 5 ppm	Ca .....	≤ 50 ppm	Assay (acidimetric) .....	≥ 99 %
Identification .....	Positive	Phosphate .....	≤ 5 ppm	Fe .....	≤ 5 ppm		
pH solution 5% .....	5.2 ÷ 9.2	Water-insoluble matter .....	≤ 100 ppm	K.....	≤ 50 ppm		
Total nitrogen.....	≤ 3 ppm	Heavy metals (Pb).....	≤ 3 ppm	Mg .....	≤ 30 ppm		

Code	Size	Packaging	Notes
482957	1 kg	Plastic bottle	
482959	5 kg	Plastic jar	



## Sodium sulfide nonahydrate

Sodio solfuro nonaidrato • Sodium sulfure nonahydraté • Sodio sulfuro nonahidrato

$\text{Na}_2\text{S} \cdot 9\text{H}_2\text{O}$   
 Molecular Weight: 240,18  
 CAS: 1313-84-4  
 EEC-N: 215-211-5

### Classification transport

ONU: 1849  
 Transport Hazard class: 8  
 Packing group II



### Danger

H302-H311-H314-H400-HEU031  
 P264-P273-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

## Sodium sulfide nonahydrate > RPE - For analysis - ACS

**RPE**

Description .....	Crystals or Chunks	Ammonium .....	≤ 50 ppm	Sulphite and thiosulphate (SO4) .....	≤ 0.1 %
Identification .....	Positive	Fe .....	Conform	Assay (oxidimetric) .....	≥ 98.0 %

Code	Size	Packaging	Notes
483484	100 g	Plastic bottle	
483485	250 g	Plastic bottle	
483487	1 kg	Plastic bottle	
483489	5 kg	Plastic jar	

**Sodium sulfite anhydrous**

Sodio solfito anidro • Sodium sulfite anhydrous • Sodio solfito anidro

Na<sub>2</sub>SO<sub>3</sub>

HEU031

Molecular Weight: 126,04

CAS: 7757-83-7

EEC-N: 231-821-4

**Sodium sulfite anhydrous > RPE - For analysis - ACS****RPE**

Description	White powder	Free alkalinity	≤0.03 meq/g	Heavy metals (Pb)	≤10 ppm
Identification	Positive	Chloride	≤200 ppm	Fe	≤10 ppm
Acidity	Conform	Water-insoluble matter	≤50 ppm	Assay (oxidimetric)	≥98.0 %

Code	Size	Packaging	Notes
483256	100 g	Plastic bottle	
483257	1 kg	Plastic bottle	
483258	2.5 kg	Plastic bottle	
483252	25 kg	Plastic bucket	

**Sodium sulfite anhydrous > ERBApharm - According to pharmacopoeia : BP-Ph.Eur.****ERBApharm**

Description	White powder	Heavy metals (Pb)	≤10 ppm	Se	≤10 ppm	Origin (BSE/TSE)	Synthesis
Identification	Positive	Thiosulphate	≤0.1 %	Zn	≤25 ppm	Residual solvents (CPMP/ICH/283/95)	Conform
Appearance of solution	Conform Ph.Eur.	Fe	≤10 ppm	Assay (oxidimetric)	95.0 ÷ 100.5 %		

Code	Size	Packaging	Notes
376006	1 kg	Plastic bottle	
376008	2.5 kg	Plastic bottle	
376009	5 kg	Plastic jar	
376002	10 kg	Plastic jar	
376003	25 kg	Plastic bucket	
376004	50 kg	Plastic bucket	

**Sodium sulfide nonahydrate solution**

Sodio solfuro nonaidrato soluzione • Sodium sulfure nonahydraté solution • Sodio solfuro nonaidrato solución

Na<sub>2</sub>S.9H<sub>2</sub>O

Molecular Weight: 240,18

CAS: 1313-84-4

**Classification transport**

ONU: 2922

Transport Hazard class: 8

Packing group III

**Danger**

H314

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Sodium sulfide nonahydrate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611083901	100 ml	Plastic bottle	Ref Ph.Eur 1083901
611083902	100 ml	Plastic bottle	Sodium sulfide solution R1 Ref Ph.Eur 1083902

**Sodium sulfocyanate**

Sodio solfocianuro • Sodium sulfocyanure • Sodio solfocianuro

Synonym:

Sodium thiocyanate

Sodium rhodanate

NaSCN

Molecular Weight: 81,07

CAS: 540-72-7

EEC-N: 208-754-4

**Warning**

H302-HEU032

P264-P270-P330-P301+P312a-P501a

**Sodium sulfocyanate > RPE - For analysis - ACS****RPE**

Description	White crystals	Carbonate	≤0.2 %	Heavy metals (Pb)	≤5 ppm	Fe	≤2 ppm
Identification	Positive	Chloride	≤100 ppm	Sulphate	≤100 ppm	Assay (argentimetric)	≥98.0 %
Ammonium	≤20 ppm	Water-insoluble matter	≤50 ppm	Sulphide	≤10 ppm		

Code	Size	Packaging	Notes
483354	100 g	Plastic bottle	
483356	500 g	Plastic bottle	



## Sodium tartrate dihydrate

Sodio tartrato diidrato • Sodium tartrate dihydraté • Sodio tartrato dihidrato

Synonym:  
L-(+)-tartaric acid disodium salt  
Disodium tartrate dihydrate

(CHOHCOONa)<sub>2</sub>·2H<sub>2</sub>O  
Molecular Weight: 230,08  
CAS: 6106-24-7  
EEC-N: 212-773-3

### Sodium tartrate dihydrate > RS - For Karl Fischer's reagent standardization - ACS

RS

Description	White crystalline powder	Ammonium	≤30 ppm	Heavy metals (Pb)	≤5 ppm	Assay (non-aqueous medium)	99.0 ÷ 101.0 %
Identification	Positive	Chloride	≤5 ppm	Sulphate	≤50 ppm		
pH sol. 5% at 25° C	7.0 ÷ 9.0	Phosphate	≤5 ppm	Ca	≤100 ppm		
Loss on drying 150° C	15.61 ÷ 15.71 %	Water-insoluble matter	≤50 ppm	Fe	≤10 ppm		

Code	Size	Packaging	Notes
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483561	100 g	Plastic bottle	
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### Sodium tartrate dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description	White crystalline powder	Ammonium	≤ 30 ppm	Heavy metals (Pb)	≤ 5 ppm	Assay (non-aqueous medium)	99.0 ÷ 101.0 %
Identification	Positive	Chloride	≤ 5 ppm	Sulphate	≤ 50 ppm		
pH sol. 5% at 25° C	7.0 ÷ 9.0	Phosphate	≤ 5 ppm	Ca	≤ 100 ppm		
Loss on drying at 150°C	15.61 ÷ 15.71 %	Water-insoluble matter	≤ 50 ppm	Fe	≤ 10 ppm		

Code	Size	Packaging	Notes
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483635	100 g	Plastic bottle	
483636	500 g	Plastic bottle	
483637	1 kg	Plastic bottle	



## Sodium tetraborate anhydrous

Sodio tetraborato anidro • Sodium tétraborate anhydre • Sodio tetraborato anhidro

Synonym:  
Borax

Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>  
Molecular Weight: 201,22  
CAS: 1330-43-4  
EEC-N: 215-540-4



**Danger**

H360FD-HA26  
P280-P201-P202-P308+P313-P405-P501a

### Sodium tetraborate anhydrous > RPE - For analysis

RPE

Description	White crystals	Chloride	≤ 500 ppm	Ca	≤ 500 ppm	Assay (acidimetric)	≥ 98.0 %
Identification	Positive	Heavy metals (Pb)	≤ 50 ppm	Fe	≤ 100 ppm		

Code	Size	Packaging	Notes
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483735	100 g	Plastic bottle	
483736	1 kg	Plastic bottle	



## Sodium tetraborate decahydrate

Sodio tetraborato decaidrato • Sodium tétraborate décahydraté • Sodio tetraborato decahidrato

Synonym:  
Borax decahydrate

Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>·10H<sub>2</sub>O  
Molecular Weight: 381,37  
CAS: 1303-96-4  
EEC-N: 215-540-4



**Danger**

H360FD-HA26  
P280-P201-P202-P308+P313-P405-P501a

### Sodium tetraborate decahydrate > RPE - For analysis - ACS - ISO

RPE

Description	White crystals	Phosphate	≤5 ppm	Ca	≤50 ppm	Ni	≤2 ppm
Identification	Positive	Water-insoluble matter	≤30 ppm	Cu	≤2 ppm	Pb	≤2 ppm
pH sol. M/100 at 25° C	9.00 ÷ 9.50	Heavy metals (Pb)	≤5 ppm	Fe	≤5 ppm	Zn	≤2 ppm
Carbonate	≤50 ppm	Sulphate	≤10 ppm	K	≤50 ppm	Assay (acidimetric)	≥99.5 %
Chloride	≤5 ppm	As	≤1 ppm	Mg	≤10 ppm		

Code	Size	Packaging	Notes
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478815	100 g	Plastic bottle	
478816	500 g	Plastic bottle	
478817	1 kg	Plastic bottle	
478819	5 kg	Plastic jar	
478812	25 kg	Plastic bucket	



**Sodium tetraborate decahydrate > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph.****ERBApharm****Franc.**

Description .....	White crystalline powder	Carbonates and bicarb.....	Conform USP-NF	Heavy metals (Pb).....	≤ 20 ppm	Ca.....	≤ 100 ppm
Identification .....	Positive	pH sol. 4% at 25 °C .....	9.0 ÷ 9.6	Sulphate .....	≤ 50 ppm	Fe .....	≤ 4 ppm
Appearance of solution .....	Conform Ph.Eur	Ammonium .....	≤ 10 ppm	As .....	≤ 5 ppm	Assay (alkalimetric).....	99.0 ÷ 103.0 %

Code	Size	Packaging	Notes
367207	1 kg	Plastic bottle	
367209	5 kg	Plastic jar	
367201	25 kg	Plastic bucket	

**Sodium tetraphenylborate**

Sodio tetrafenilborato • Sodio tétraphénylborate • Sodio tetrafenilborato

Synonym:

Tetraphenylboron sodium salt

Na[B(C<sub>6</sub>H<sub>5</sub>)<sub>4</sub>]  
 Molecular Weight: 342,23  
 CAS: 143-66-8  
 EEC-N: 205-605-5

**Classification transport**

ONU: 2811  
 Transport Hazard class: 6.1  
 Packing group III

**Danger**

H301  
 P264-P270-P301+P310a-P330-P321-P405

**Sodium tetraphenylborate > RPE - For analysis - ACS****RPE**

Description .....	White crystalline powder	Appearance of solution .....	Conform	Assay (gravimetric) .....	≥99.5 %
Identification .....	Positive	Loss on drying .....	≤0.5 %		

Code	Size	Packaging	Notes
483758	5 g	Glass bottle	
483751	25 g	Glass bottle	

**Reagent for the precipitation titration and potassium****Sodium thiocyanate ▶ Sodium sulfocyanate****Sodium thiosulfate anhydrous**

Sodio tiosulfato anidro • Sodio thiosulfate anhydre • Sodio tiosulfato anhidro

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 158,11  
 CAS: 7772-98-7  
 EEC-N: 231-867-5

**Sodium thiosulfate anhydrous > RE - Pure****RE**

Description .....	White crystalline powder	pH sol 10%.....	6.5 ÷ 9.5	Loss on drying .....	≤ 2 %	Assay (oxidimetric) .....	≥98 %
Identification .....	Positive	Sulphat + sulphit (SO4) .....	≤ 1 %	Heavy metals (Pb).....	≤ 50 ppm	Fe .....	≤ 50 ppm

Code	Size	Packaging	Notes
378377	1 kg	Plastic bottle	
378378	5 kg	Plastic jar	
378372	10 kg	Plastic jar	



## Sodium thiosulfate pentahydrate

Sodio tiosulfato pentaidrato • Sodium thiosulfate pentahydraté • Sodio tiosulfato pentahidrato



Molecular Weight: 248,18

CAS: 10102-17-7

EEC-N: 231-867-5

### Sodium thiosulfate pentahydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

**RPE**

Description .....	Semitransparent crystals	Total nitrogen .....	≤20 ppm	Sulphide .....	≤1 ppm	pH sol. 10% at 20°C .....	6.0 ÷ 8.4
Identification .....	Positive	Water-insoluble matter .....	≤50 ppm	Assay (iodometric) .....	99.5 ÷ 101.0 %	Heavy metals (Pb) .....	≤10 ppm
pH sol. 5% at 25° C .....	6.0 ÷ 8.4	Sulphat + sulphit (SO4) .....	≤0.1 %	Appearance of solution .....	Conform		

Code	Size	Packaging	Notes
483825	100 g	Plastic bottle	
483826	500 g	Plastic bottle	
483827	1 kg	Plastic bottle	
483829	5 kg	Plastic jar	
483821	25 kg	Plastic bucket	

### Sodium thiosulfate pentahydrate > ERBapharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-

**ERBapharm**

BP

Description .....	Colourless crystals	Sulphide .....	Conform Ph.Eur.	Loss at 45°C .....	32.0 ÷ 37.0 %	Assay (iodometric) .....	99.0 ÷ 100.5 % s.s.
Identification .....	Positive	Ca .....	Conform USP-NF	Sulphat + sulphit (SO4) .....	≤0.2 %	Heavy metals (Pb) .....	≤10 ppm
Appearance of solution .....	Conform Ph.Eur.	pH sol 10% .....	6.0 ÷ 8.4				

Code	Size	Packaging	Notes
377907	1 kg	Plastic bottle	
377909	5 kg	Plastic jar	
377901	25 kg	Drum	

### Sodium thiosulfate pentahydrate > RE - Pure

**RE**

Description .....	Colourless crystals	Ins., Ca, Mg & ppt NH4OH .....	≤ 0.2 %	S .....	≤ 20 ppm	Assay (oxidimetric) .....	≥ 99 %
Identification .....	Positive	Heavy metals (Pb) .....	≤ 10 ppm	Fe .....	≤ 2 ppm		

Code	Size	Packaging	Notes
378207	1 kg	Plastic bottle	
378209	5 kg	Plastic jar	
378202	25 kg	Plastic bucket	
378204	50 kg	Plastic bucket	



## Sodium thiosulfate 1 mol/l (1N)

Sodio tiosulfato 1 mol/l (1N) • Sodium thiosulfate 1 mol/l (1N) • Sodio tiosulfato 1 mol/l (1N)



Molecular Weight: 248,18

CAS: 10102-17-7

### Sodium thiosulfate 1 mol/l (1N) > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	Assay (potentiometry) .....	0.99 - 1.01 N
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Code	Size	Packaging	Notes
484026	500 ml	Glass bottle	

**158,11 g of Na2S2O3. Volumetric solution ready-to-use: 1 N**

**Sodium thiosulfate 0.5 mol/l (0.5N)**

Sodio tiosulfato 0.5 mol/l (0.5N) • Sodium thiosulfate 0.5 mol/l (0.5N) • Sodio tiosulfato 0.5 mol/l (0.5N)

Na2S2O3.5H2O  
 Molecular Weight: 248,18  
 CAS: 10102-17-7

**Sodium thiosulfate 0.5 mol/l (0.5N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.499 - 0.501 N

Code	Size	Packaging	Notes
P3530015	1 l	Plastic bottle	

**Sodium thiosulfate 0.2 mol/l (0.2N)**

Sodio tiosulfato 0.2 mol/l (0.2N) • Sodium thiosulfate 0.2 mol/l (0.2N) • Sodio tiosulfato 0.2 mol/l (0.2N)

Na2S2O3.5H2O  
 Molecular Weight: 248,18  
 CAS: 10102-17-7

**Sodium thiosulfate 0.2 mol/l (0.2N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.1998 - 0.2002 N

Code	Size	Packaging	Notes
P3520022	5 l	Plastic tank	

**Sodium thiosulfate 0.1 mol/l (0.1N)**

Sodio tiosulfato 0.1 mol/l (0.1N) • Sodium thiosulfate 0.1 mol/l (0.1N) • Sodio tiosulfato 0.1 mol/l (0.1N)

Na2S2O3.5H2O  
 Molecular Weight: 248,18  
 CAS: 10102-17-7

**Sodium thiosulfate 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613007301	500 ml	Glass bottle	Ref Ph.Eur 3007300
613007300	1 l	Glass bottle	Ref Ph.Eur 3007300

**Sodium thiosulfate 0.1 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 136.....e

Code	Size	Packaging	Notes
484077000	1 l	Glass bottle	
484072000	5 l	Kubidos	
484071000	10 l	Kubidos	

**15.811 g of Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>. Volumetric solution ready-to-use : 0.1N. Traceable to NIST****Sodium thiosulfate 0.1 mol/l (0.1N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
484121		Plastic ampoule	Volume : 55 ml

**Volumetric concentrated solution to prepare 1 L of solution 0,1 M**



## Sodium thiosulfate 0.0394 mol/l (0.0394N)

Sodio tiosulfato 0.0394 mol/l (0.0394N) • Sodium thiosulfate 0.0394 mol/l (0.0394N) • Sodio tiosulfato 0.0394 mol/l (0.0394N)

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$   
Molecular Weight: 248,18  
CAS: 10102-17-7

### Sodium thiosulfate 0.0394 mol/l (0.0394N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.0390 - 0.0398 N

Code	Size	Packaging	Notes
484141	2.5 l	Glass bottle	



## Sodium thiosulfate 0.01 mol/l (0.01N)

Sodio tiosulfato 0.01 mol/l (0.01N) • Sodium thiosulfate 0.01 mol/l (0.01N) • Sodio tiosulfato 0.01 mol/l (0.01N)

$\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$   
Molecular Weight: 248,18  
CAS: 10102-17-7

### Sodium thiosulfate 0.01 mol/l (0.01N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
484161		Plastic ampoule	Volume : 55 ml

**1,581 g Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N**

## Sodium p-toluenesulfonate ► p-Toluenesulfonic acid sodium salt



## Sodium tungstate dihydrate

Sodio tungstato diidrato • Sodium tungstate dihydrate • Sodio tungstato diidrato

Synonym:  
Tungstic acid sodium salt dihydrate

$\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$   
Molecular Weight: 329,86  
CAS: 10213-10-2  
EEC-N: 236-743-4



### Warning

H302-H319  
P264-P280-P305+P351+P338-P330-P337+P313-P301+P312a

### Sodium tungstate dihydrate > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystals    Chloride ..... ≤ 50 ppm    Sulphate ..... ≤ 100 ppm  
Identification ..... Positive    Water-insoluble matter ..... ≤ 100 ppm    Mo ..... ≤ 10 ppm  
Free alkalinity ..... ≤ 0.02 meq/g    Heavy metals and Fe(Pb) ..... ≤ 10 ppm    Assay (gravimetric) ..... 99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
484233	50 g	Glass bottle	
484236	500 g	Plastic bottle	



## Sodium tungstate solution 10%

Sodio tungstato soluzione 10% • Sodium tungstate solution 10% • Sodio tungstato solución 10%

Synonym:  
Tungstic acid sodium salt dihydrate

$\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$   
Molecular Weight: 329,86  
CAS: 10213-10-2



### Warning

H319  
P264-P280-P305+P351+P338-P337+P313

### Sodium tungstate solution 10% > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 20° C ..... 1.086 ÷ 1.094

Code	Size	Packaging	Notes
484282	500 ml	Bottle	

**Solvent Plus**

Solvente Plus • Solvant Plus • Disolvente Plus

CAS: 68551-19-9  
EEC-N: 271-369-5**Classification transport**  
ONU: 1993  
Transport Hazard class: 3  
Packing group III**Danger**H226-H304  
P210-P241-P243-P280a-P303+P361+P353-  
P403+P235**Solvent Plus > RS - For histology****RS**

Description ..... Clear liquid    Identification ..... Positive    Aromatic compounds ..... ≤ 0.05 %    Distillation range ..... 175 ÷ 213 °C

Code	Size	Packaging	Notes
446187	2.5 l	Glass bottle	
446181	5 l	Plastic tank	

**Sorbitol**

Sorbitolo • Sorbitol • Sorbitol

Synonym:  
*D-Glucitol* $C_6H_{14}O_6$   
Molecular Weight: 182,17  
CAS: 50-70-4  
EEC-N: 200-061-5**Sorbitol > ERBApharm - According to pharmacopoeia : FU-Ph.Eur.****ERBApharm**

Description ..... White crystalline powder    Reducing sugar ..... Conform Ph.Eur.    Sostanze analoghe (HPLC) .Conform Ph.Eur.    Escherichia coli ..... Absent Ph. Eur.  
 Identification ..... Positive    Assay (HPLC) ..... 97.0 ÷ 102.0 % anidro    Conductivity ..... ≤ 20 µS.cm-1    Salmonella ..... Absent Ph. Eur.  
 Water (K.F) ..... ≤ 1.5 %    Appearance of solution ..... Conform Ph.Eur.    **Microbial tests**  
 Ni ..... ≤ 1 ppm    Specific optical rotation (anhydrous) +4.0 ÷ +7.0 °    TAMC ..... ≤ 1000 CFU/g  
 Pb ..... ≤ 0.5 ppm    TYMC ..... ≤ 100 CFU/g

Code	Size	Packaging	Notes
379014	50 kg	Fibre drum	

**Sorbitol (no crystallizable) solution 70%**

Sorbitolo (non cristallizzabile) soluzione 70% • Sorbitol solution 70% • Sorbitol (no cristallizable) solución 70%

Synonym:  
*D-Glucitol* $C_6H_{14}O_6$   
Molecular Weight: 182,17  
CAS: 50-70-4  
EEC-N: 200-061-5**Sorbitol (no crystallizable) solution 70% > ERBApharm - According to pharmacopoeia : Ph.Eur.-NF****ERBApharm**

Description ..... Clear colourless liquid    Conductivity ..... ≤ 10 µS.cm-1    Zuccheri riducenti dopo idrolisi ..... ≤ 9.3 %    **Assay (HPLC)**  
 Identification ..... Positive    Ni ..... ≤ 1 ppm    Specific optical rotation ..... +1.5 - +3.5 °    Sostanza anidra ..... 68.0 ÷ 72.0 %  
 Appearance of solution ..... Conform Ph.Eur.    Pb ..... ≤ 0.5 ppm    Residue on ignition ..... ≤ 0.1 %    D- Sorbitolo ..... 72.0 ÷ 92.0 %  
 Water (K.F) ..... 28.5 ÷ 31.5 %    Reducing sugar ..... ≤ 0.2 %    pH sol. 14% ..... 5.0 - 7.5

Code	Size	Packaging	Notes
379021	1 l	Plastic bottle	



## D-Sorbitol

D-Sorbitolo • D-Sorbitol • D-Sorbitol

Synonym:  
D-Glucitol



Molecular Weight: 182,17

CAS: 50-70-4

EEC-N: 200-061-5

### D-Sorbitol > RPE - For analysis

**RPE**

Description .....	White crystalline powder	Heavy metals (Pb).....	≤10 ppm	Total sugars(Glucose).....	≤0,3 %	Assay (oxidimetric) .....	≥98 %
Identification .....	Positive	Residue on ignition.....	≤0.1 %	As .....	≤2 ppm		
Loss on drying .....	≤1 %	Sulphate.....	≤100 ppm	Ca .....	≤50 ppm		
Chloride.....	≤50 ppm	Red.ing sugars(Glucose) .....	≤0.1 %	Fe .....	≤10 ppm		

Code	Size	Packaging	Notes
484704	100 g	Plastic bottle	
484705	250 g	Plastic bottle	
484701	1 kg	Plastic bottle	



## Standard Mixture for hydrocarbon analysis

Soluzione standard per analisi degli idrocarburi • Mélange standard pour analyse des hydrocarbures • Mezcla estándar para análisis de hidrocarburos

### Standard Mixture for hydrocarbon analysis > RS - For environmental analysis according to NF EN ISO 9377-2

**RS**

Code	Size	Packaging	Notes
506002	1 ml	Glass ampoule	Standard quality control of two mineral oils in acetone
506010	1 ml	Glass ampoule	Mixture of mineral oil without additive 2 to 5 mg / ml each in hexane
506020	1 ml	Glass ampoule	Standard mixture of n-alkanes (C10 to C40 in pairs) of 50 mcg / ml each in hexane
506040	5 ml	Glass ampoule	N-tetracontane mixture (20 mg / l) and n-decane (20 mg / l) in hexane
506011	10 ml	Glass ampoule	Mixture of mineral oil without additive 2 to 1 mg / ml each in hexane
506030	10 ml	Glass ampoule	Mother solution stearyl stearate 2 g / l in hexane

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 1.30 µS/cm

Soluzione standard da 1.30 µS/cm • Etalon de conductivité 1.30 µS/cm • Solución patrón de 1.30 µS/cm

### Classification transport

ONU: 1274

Transport Hazard class: 3

Packing group III



### Danger

H226-H318-H336

P210-P241-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Standard solution 1.30 µS/cm > RS - For conductivity

**RS**

Description .....	Clear colourless liquid	Identification .....	Positive	Conductivity at 25°C .....	1.25 ÷ 1.35 µS/cm
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Code	Size	Packaging	Notes
575231	250 ml	Glass bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Standard solution 5 µS/cm**

Soluzione standard da 5 µS/cm • Etalon de conductivité 5 µS/cm • Solución patrón de 5 µS/cm

**Classification transport**ONU: 1274  
Transport Hazard class: 3  
Packing group III**Danger**H226-H318-H336  
P210-P241-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235**Standard solution 5 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 4.95 ÷ 5.05 µS/cm

Code	Size	Packaging	Notes
575001	250 ml	Glass bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Standard solution 10 µS/cm**

Soluzione standard da 10 µS/cm • Etalon de conductivité 10µS/cm • Solución patrón de 10 µS/cm

**Classification transport**ONU: 1274  
Transport Hazard class: 3  
Packing group III**Danger**H226-H318-H336  
P210-P241-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235**Standard solution 10 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 9.80 ÷ 10.20 µS/cm

Code	Size	Packaging	Notes
575011	250 ml	Glass bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Standard solution 20 µS/cm**

Soluzione standard da 20 µS/cm • Etalon de conductivité 20 µS/cm • Solución patrón de 20 µS/cm

**Classification transport**ONU: 1274  
Transport Hazard class: 3  
Packing group III**Danger**H226-H318-H336  
P210-P241-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235**Standard solution 20 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 19.80 ÷ 20.20 µS/cm

Code	Size	Packaging	Notes
575021	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Standard solution 50 µS/cm**

Soluzione standard da 50 µS/cm • Etalon de conductivité 50 µS/cm • Solución patrón de 50 µS/cm

**Classification transport**ONU: 1274  
Transport Hazard class: 3  
Packing group III**Danger**H226-H318-H336  
P210-P241-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235**Standard solution 50 µS/cm > RS - For conductivity****RS**

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 49.5 ÷ 50.5 µS/cm

Code	Size	Packaging	Notes
575031	500 ml	Glass bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 84 µS/cm

Soluzione standard da 84 µS/cm • Etalon de conductivité 84 µS/cm • Solución patrón de 84 µS/cm

### Standard solution 84 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 83.16 ÷ 84.84 µS/cm

Code	Size	Packaging	Notes
575041	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 100 µS/cm

Soluzione standard da 100 µS/cm • Etalon de conductivité 100 µS/cm • Solución patrón de 100 µS/cm

### Standard solution 100 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 99.0 ÷ 101.0 µS/cm

Code	Size	Packaging	Notes
575051	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 147 µS/cm

Soluzione standard da 147 µS/cm • Etalon de conductivité 147 µS/cm • Solución patrón de 147 µS/cm

### Standard solution 147 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 145.5 ÷ 148.5 µS/cm

Code	Size	Packaging	Notes
575061	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 200 µS/cm

Soluzione standard da 200 µS/cm • Etalon de conductivité 200 µS/cm • Solución patrón de 200 µS/cm

### Standard solution 200 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 198.0 ÷ 202.0 µS/cm

Code	Size	Packaging	Notes
575071	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 500 µS/cm

Soluzione standard da 500 µS/cm • Etalon de conductivité 500 µS/cm • Solución patrón de 500 µS/cm

### Standard solution 500 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 495.0 ÷ 505.0 µS/cm

Code	Size	Packaging	Notes
575081	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 1000 µS/cm

Soluzione standard da 1000 µS/cm • Etalon de conductivité 1000 µS/cm • Solución patrón de 1000 µS/cm

### Standard solution 1000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 990.0 ÷ 1010.0 µS/cm

Code	Size	Packaging	Notes
575091	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



**Standard solution 1413  $\mu\text{S}/\text{cm}$** Soluzione standard da 1413  $\mu\text{S}/\text{cm}$  • Etalon de conductivité 1413  $\mu\text{S}/\text{cm}$  • Solución patrón de 1413  $\mu\text{S}/\text{cm}$ **Standard solution 1413  $\mu\text{S}/\text{cm}$  > RS - For conductivity****RS**Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 1399  $\pm$  1427  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575101	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Standard solution 5000  $\mu\text{S}/\text{cm}$** Soluzione standard da 5000  $\mu\text{S}/\text{cm}$  • Etalon de conductivité 5000  $\mu\text{S}/\text{cm}$  • Solución patrón de 5000  $\mu\text{S}/\text{cm}$ **Warning**H302  
P264-P270-P330-P301+P312a-P501a**Standard solution 5000  $\mu\text{S}/\text{cm}$  > RS - For conductivity****RS**Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 4950  $\pm$  5050  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575111	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Standard solution 10000  $\mu\text{S}/\text{cm}$** Soluzione standard da 10000  $\mu\text{S}/\text{cm}$  • Etalon de conductivité 10 000  $\mu\text{S}/\text{cm}$  • Solución patrón de 10000  $\mu\text{S}/\text{cm}$ **Warning**H302  
P264-P270-P330-P301+P312a-P501a**Standard solution 10000  $\mu\text{S}/\text{cm}$  > RS - For conductivity****RS**Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 9900  $\pm$  10100  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575121	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Standard solution 12880  $\mu\text{S}/\text{cm}$** Soluzione standard da 12880  $\mu\text{S}/\text{cm}$  • Etalon de conductivité 12 880  $\mu\text{S}/\text{cm}$  • Solución patrón de 12880  $\mu\text{S}/\text{cm}$ **Warning**H302  
P264-P270-P330-P301+P312a-P501a**Standard solution 12880  $\mu\text{S}/\text{cm}$  > RS - For conductivity****RS**Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 12751  $\pm$  13009  $\mu\text{S}/\text{cm}$ 

Code	Size	Packaging	Notes
575131	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 20000 µS/cm

Soluzione standard da 20000 µS/cm • Etalon de conductivité 20 000 µS/cm • Solución patrón de 20000 µS/cm



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### Standard solution 20000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....19800 ÷ 20200 µS/cm

Code	Size	Packaging	Notes
575141	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 50000 µS/cm

Soluzione standard da 50000 µS/cm • Etalon de conductivité 50 000 µS/cm • Solución patrón de 50000 µS/cm



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### Standard solution 50000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....49500 ÷ 50500 µS/cm

Code	Size	Packaging	Notes
575151	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 100000 µS/cm

Soluzione standard da 100000 µS/cm • Etalon de conductivité 100 000 µS/cm • Solución patrón de 100000 µS/cm



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### Standard solution 100000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....99000 ÷ 101000 µS/cm

Code	Size	Packaging	Notes
575161	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 150000 µS/cm

Soluzione standard da 150000 µS/cm • Etalon de conductivité 150 000 µS/cm • Solución patrón de 150000 µS/cm



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### Standard solution 150000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....148500 ÷ 151500 µS/cm

Code	Size	Packaging	Notes
575171	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 200000 µS/cm

Soluzione standard da 200000 µS/cm • Etalon de conductivité 200 000 µS/cm • Solución patrón de 200000 µS/cm



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Standard solution 200000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....198000 ÷ 202000 µS/cm

Code	Size	Packaging	Notes
575181	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 300000 µS/cm

Soluzione standard da 300000 µS/cm • Etalon de conductivité 300 000 µS/cm • Solución patrón de 300000 µS/cm



**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a

### Standard solution 300000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....297000 ÷ 303000 µS/cm

Code	Size	Packaging	Notes
575191	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 350000 µS/cm

Soluzione standard da 350000 µS/cm • Etalon de conductivité 350 000 µS/cm • Solución patrón de 350000 µS/cm

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group II



**Warning**  
H302-H315-H319  
P264-P280-P305+P351+P338-P330-P332+P313-P337+P313

### Standard solution 350000 µS/cm > RS - For conductivity

RS

Code	Size	Packaging	Notes
575201	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 450000 µS/cm

Soluzione standard da 450000 µS/cm • Etalon de conductivité 450 000 µS/cm • Solución patrón de 450000 µS/cm

### Standard solution 450000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C .....445500 ÷ 454500 µS/cm

Code	Size	Packaging	Notes
575211	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solution 500000 µS/cm

Soluzione standard da 500000 µS/cm • Etalon de conductivité 500 000 µS/cm • Solución patrón de 500000 µS/cm

### Classification transport

ONU: 2796  
Transport Hazard class: 8  
Packing group II



### Danger

H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

## Standard solution 500000 µS/cm > RS - For conductivity

RS

Description ..... Clear colourless liquid Identification ..... Positive Conductivity at 25°C ..... 495000 ÷ 505000 µS/cm

Code	Size	Packaging	Notes
575221	500 ml	Plastic bottle	

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Standard solutions for degree of coloration of liquids

Soluzioni standard per il grado di colorazione dei liquidi • Solutions étalon pour le degré de coloration des liquides • Soluciones estándar para el grado de coloración de líquidos

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group III



### Danger

H314-H334-H317-H350-H412-HA26  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P342+P311a

## Standard solutions for degree of coloration of liquids > RS - For analysis according to Ph. Eur. Chap. 2.2.2

RS

Code	Size	Packaging	Notes
612202510	125 ml	Plastic bottle	Standard solution B (brown)
612202520	125 ml	Plastic bottle	Standard solution BY (brownish-yellow)
612202530	125 ml	Plastic bottle	Standard solution Y (yellow)
612202540	125 ml	Plastic bottle	Standard solution GY (greenish-yellow)
612202550	125 ml	Plastic bottle	Standard solution R (red)



## Starch paste solution 1%

Salda d'amido soluzione 1% • Empois d'amidon solution 1% • Almidón en pasta solución 1%

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
CAS: 9005-84-9

## Starch paste solution 1% > RPE - For analysis

RPE

Description ..... Colourless opaline liquid Identification ..... Positive

Code	Size	Packaging	Notes
E477301	250 ml	Glass bottle	
E477302	1 l	Bottle	

**Stabilized**



## Starch soluble

Amido solubile • Amidon soluble • Almidón soluble

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
CAS: 9005-84-9  
EEC-N: 232-686-4

## Starch soluble > RPE - For analysis - Reag.Ph.Eur.

RPE

Description ..... White powder pH solution 2% ..... 5.0 ÷ 7.0 Sulphated ash ..... ≤ 1.5 %  
Identification ..... Positive Loss on drying 100° C ..... ≤ 20 %

Code	Size	Packaging	Notes
417585	250 g	Plastic bottle	
417587	1 kg	Plastic bottle	

**Starch soluble solution**

Amido solubile soluzione • Amidon soluble solution • Almidón soluble solución

**Starch soluble solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611085103	100 ml	Plastic bottle	Ref Ph.Eur 1085103
611085104	1 l	Bottle	Ref Ph.Eur 1085103

**Stearic acid**

Acido stearico • Acide stéarique • Acido estearico 50

Synonym:

1-Heptadecanecarboxylic acid

CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COOH  
 Molecular Weight: 284,48  
 CAS: 57-11-4  
 EEC-N: 200-313-4

**Classification transport**

ONU: 1325  
 Transport Hazard class: 4.1  
 Packing group III

**Warning**

H228-H315-H319-H335  
 P210-P241-P264-P271-P304+P340-  
 P305+P351+P338

**Stearic acid > ERBApharm - Vegetal origin - According to pharmacopoeia : Ph.Eur.-NF**

ERBApharm

Description	White flakes	Acidity	Conform Ph.Eur.	Heavy metals (Pb)	≤10 ppm	Assay (Stearic Acid+Palmitic Acid)	≥90.0 %
Identification	Positive	Acidity index	194 ÷ 212	Ni	≤1 ppm		
Appearance	Conform Ph.Eur.	Iodine value	≤ 4,0	Melting point	53 ÷ 59 ° C		
Color of solution	Pass test USP-NF	Sulphated ash	≤0,1 %	Assay (Stearic Acid)	40.0 ÷ 60.0 %		

Code	Size	Packaging	Notes
307112	2.5 kg	Plastic jar	
307115	25 kg	Fibre drum	

**Stearic acid calcium salt ▶ Calcium stearate****Stearic acid magnesium salt ▶ Magnesium stearate****Strontium standard solution**

Stronzio standard soluzione • Strontium solution standard • Estroncio, solución patrón

**Danger**

H314  
 P264-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

**Strontium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505867	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505868	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505869	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Strontium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
503951	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503955	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503953	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503957	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Strontium standard solution > RS - Standard solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507760	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497665	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507493	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497661	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Strontium standard solution > RS - NORMEX - Concentrated solution for AAS**

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
485391		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

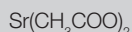
**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package****Strontium standard solution > RS - Standard solution for ion chromatography**

RS

Code	Size	Packaging	Notes
503361	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Strontium acetate**

Stronzio acetato • Strontium acétate • Estroncio acetato



Molecular Weight: 205,71

CAS: 543-94-2

EEC-N: 208-854-8

**Strontium acetate > RPE - For analysis**

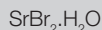
RPE

Description ..... White cryst. powder	Heavy metals (Pb)..... ≤5 ppm	Ca ..... ≤0.1 %	Ni ..... ≤2.5 ppm
Identification ..... Positive	Nitrate ..... ≤30 ppm	Cu ..... ≤2.5 ppm	Pb ..... ≤2.5 ppm
pH sol. 5% at 25° C ..... 6.5 ÷ 8.5	Substanc. not ppt H2SO4 ..... ≤0.15 %	Fe ..... ≤5 ppm	Zn ..... ≤2.5 ppm
Chloride ..... ≤50 ppm	Sulphate ..... ≤30 ppm	K ..... ≤500 ppm	Assay (complexometric) ..... ≥99 %
Insol.in dil.acetic ac. .... ≤50 ppm	Ba ..... ≤50 ppm	Na ..... ≤0.15 %	

Code	Size	Packaging	Notes
485304	100 g	Glass bottle	

**Strontium bromide monohydrate**

Stronzio bromuro monoidrato • Strontium bromure monohydraté • Estroncio bromuro monohidratato



Molecular Weight: 265,43

CAS: 14519-13-2

EEC-N: 233-969-5

**Warning**

H315-H319-H335

P264-P271-P280-P304+P340-P305+P351+P338-P312a

**Strontium bromide monohydrate > RPE - For analysis**

RPE

Description ..... Polvere granular bianca	Water-insoluble matter ..... ≤100 ppm	Sulphide ..... ≤10 ppm	Ni ..... ≤25 ppm
Identification ..... Positive	Iodide ..... ≤50 ppm	Ba ..... ≤50 ppm	Pb ..... ≤25 ppm
pH sol. 5% at 25° C ..... 4.8 ÷ 8.0	Heavy metals (Pb)..... ≤5 ppm	Ca ..... ≤0.1 %	Zn ..... ≤25 ppm
Bromate ..... ≤10 ppm	Substanc. not ppt H2SO4 ..... ≤0.2 %	Cu ..... ≤25 ppm	Assay (complexometric) ..... 99 ÷ 100 %
Chloride ..... ≤0.2 %	Sulphate ..... ≤50 ppm	Fe ..... ≤5 ppm	

Code	Size	Packaging	Notes
485354	100 g	Glass bottle	

**Strontium carbonate**

Stronzio carbonato • Strontium carbonate • Estroncio carbonato



Molecular Weight: 147,63

CAS: 1633-05-2

EEC-N: 216-643-7

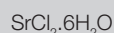
**Strontium carbonate > RPE - For analysis****RPE**

Description .....	White powder	HCl-insoluble matter .....	≤100 ppm	Ca .....	≤0.2 %	Zn .....	≤5 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤60 ppm	Cu .....	≤5 ppm	Assay (complexometric) .....	99 ÷ 100 %
Alkalinity (SrOH) .....	≤300 ppm	Substanc. not ppt H <sub>2</sub> SO <sub>4</sub> .....	≤0.3 %	Fe .....	≤10 ppm		
Chloride .....	≤10 ppm	Sulphate .....	≤50 ppm	Ni .....	≤5 ppm		
Phosphate .....	≤10 ppm	Ba .....	≤200 ppm	Pb .....	≤5 ppm		

Code	Size	Packaging	Notes
485404	100 g	Glass bottle	

**Strontium chloride hexahydrate**

Stronzio cloruro esaidrato • Strontium chlorure hexahydraté • Estroncio cloruro hexahidratado



Molecular Weight: 266,62

CAS: 10025-70-4

EEC-N: 233-971-6

**Danger**

H318

P280-P305+P351+P338-P310a

**Strontium chloride hexahydrate > RPE - For analysis - ACS****RPE**

Description .....	cris. bianchi	Water-insoluble matter .....	≤50 ppm	Ba .....	≤500 ppm	Mg .....	≤2 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤5 ppm	Ca .....	≤500 ppm	Assay (complexometric) .....	99.0 ÷ 103.0 %
pH sol. 5% at 25° C .....	5.0 ÷ 7.0	Sulphate .....	≤10 ppm	Fe .....	≤5 ppm		

Code	Size	Packaging	Notes
485455	250 g	Plastic bottle	
485457	1 kg	Plastic bottle	

**Strontium nitrate**

Stronzio nitrato • Strontium nitrate • Estroncio nitrato



Molecular Weight: 211,63

CAS: 10042-76-9

EEC-N: 233-131-9

**Classification transport**

ONU: 1507

Transport Hazard class: 5.1

Packing group III

**Danger**

H272-H302

P221-P264-P210a-P280a-P220-P330

**Strontium nitrate > RPE - For analysis - ACS****RPE**

Description .....	White crystalline powder	Chloride .....	≤20 ppm	Sulphate .....	≤50 ppm	Assay (complexometric) .....	≥99.0 %
Identification .....	Positive	Water-insoluble matter .....	≤100 ppm	Ba .....	≤500 ppm		
pH sol. 5% at 25° C .....	5.0 ÷ 7.0	Mg and Alkali salts .....	≤0.15 %	Ca .....	≤500 ppm		
Loss on drying .....	≤0.1 %	Heavy metals (Pb) .....	≤5 ppm	Fe .....	≤5 ppm		

Code	Size	Packaging	Notes
485605	250 g	Plastic bottle	
485607	1 kg	Plastic bottle	

**Strontium nitrate > RE - Pure****RE**

Description .....	White cryst. powder	Chloride .....	≤500 ppm	Heavy metals (Pb) .....	≤50 ppm	Fe .....	≤50 ppm
Identification .....	Positive	Water-insoluble matter .....	≤0.1 %	Sulphate .....	≤500 ppm	Assay (complexometric) .....	≥98 %

Code	Size	Packaging	Notes
379707	1 kg	Plastic bottle	

**Strontium sulfate**

Stronzio solfato • Strontium sulfate • Estroncio sulfato

Synonym:  
*Celestite*

Molecular Weight: 183,68

CAS: 7759-02-6

EEC-N: 231-850-2

**Strontium sulfate > RPE - For analysis****RPE**

Description .....	White powder	Chloride .....	≤20 ppm	Ca .....	≤0.2 %	Zn .....	≤5 ppm
Identification .....	Positive	Heavy metals (Pb) .....	≤10 ppm	Cu .....	≤5 ppm	Assay (complexometric) .....	≥99 %
Loss on ignition .....	≤1 %	Nitrate .....	≤0.1 %	Fe .....	≤10 ppm		
Acidity (Sulphuric acid) .....	≤200 ppm	Soluble salts .....	≤0.3 %	Ni .....	≤5 ppm		
Alkalinity (SrOH) .....	≤30 ppm	Ba .....	≤100 ppm	Pb .....	≤5 ppm		

Code	Size	Packaging	Notes
485705	250 g	Plastic bottle	

**Succinic acid**

Acido succinico • Acide succinique • Acido succinico

Synonym:  
*Butanedioic acid*

Molecular Weight: 118,09

CAS: 110-15-6

EEC-N: 203-740-4

**Warning**

H319

P264-P280-P305+P351+P338-P337+P313

**Succinic acid > RPE - For analysis****RPE**

Description .....	white crystalline powder	Water (K.F) .....	≤ 0.5 %	Fe .....	≤ 5 ppm
Melting point .....	185 ÷ 190 °C	Assay (complexometric) .....	≥ 99.5 % s.s	Other organic acid .....	≤ 0.5 %

Code	Size	Packaging	Notes
411025	250 g	Plastic bottle	
411027	1 kg	Plastic bottle	
411023	25 kg	Plastic bucket	

**Succinic anhydride**

Anidride succinica • Anhydride succinique • Anhidrido succinico

Synonym:  
*Dihydro-2,5-furandione*

Molecular Weight: 100,07

CAS: 108-30-5

EEC-N: 203-570-0

**Warning**

H302-H319-H335

P264-P271-P304+P340-P305+P351+P338-P330-P337+P313

**Succinic anhydride > RPE - For analysis****RPE**

Description .....	White crystals	Ammonium .....	≤20 ppm	Residue on ignition .....	≤100 ppm	Assay (as anhydride) .....	≥99 %
Identification .....	Positive	Chloride .....	≤10 ppm	Total sulphur .....	≤20 ppm		
Melting point .....	117.6 ÷ 121.6 °C	Heavy metals (Pb) .....	≤5 ppm	Fe .....	≤5 ppm		

Code	Size	Packaging	Notes
422204	100 g	Glass bottle	

**Succinic anhydride > RE - Pure****RE**

Description .....	White flakes	Melting point .....	118.2 ÷ 119.0 °C	Heavy metals (Pb) .....	≤10 ppm	Assay (as anhydride) .....	≥99 %
Identification .....	Positive	Chloride .....	≤150 ppm	Sulphate .....	≤400 ppm		

Code	Size	Packaging	Notes
318507	1 kg	Plastic bottle	



**D(+)-Sucrose**

D(+)-Saccarosio • D(+)-Saccharose • D(+)-Sacarosa

Synonym:

 $\alpha$ -D-Glucopyranosyl  $\beta$ -D-fructofuranoside

Molecular Weight: 342,3

CAS: 57-50-1

EEC-N: 200-334-9

**D(+)-Sucrose > RPE - For analysis - ACS****RPE**

Description .....	White crystals	Acidity .....	≤0.0008 meq/g	Water-insoluble matter .....	≤50 ppm	Sulphat + sulphit (SO <sub>4</sub> ) .....	≤50 ppm
Identification .....	Positive	Loss on drying .....	≤300 ppm	Heavy metals (Pb) .....	≤5 ppm	Inver.sugar (Glucose) .....	≤500 ppm
Specific optical rotation...	+66.3 ÷ +66.8 °	Chloride .....	≤50 ppm	Residue on ignition .....	≤100 ppm	Fe .....	≤5 ppm

Code	Size	Packaging	Notes
477186	100 g	Plastic bottle	
477187	1 kg	Plastic bottle	
477182	5 kg	Plastic jar	
477183	25 kg	Plastic bucket	

**D(+)-Sucrose > ERBApharm - According to pharmacopoeia : BP-FU-NF-Ph.Eur.-Ph.Franc.****ERBApharm**

Description .....	White crystalline powder	Dextrine .....	Conform Ph.Eur.	Colore (A) .....	≤ 45 Ph.Eur.	Sulphite .....	≤ 10 ppm
Identification .....	Positive	Reducing sugar .....	Conform Ph.Eur.	Specific optical rotation...	+66.3 ÷ +67.0 °	Pb .....	≤ 0.5 ppm
Appearance of solution .....	Conform Ph.Eur.	Conductivity .....	Conform Ph.Eur.	Loss on drying .....	≤ 0.1 %		

Code	Size	Packaging	Notes
365157	1 kg	Plastic bottle	
365158	5 kg	Plastic jar	
365152	25 kg	Plastic bucket	

**Sudan black B**

Nero Sudan B • Noir Soudan B • Negro Sudan B

Synonym:

Ceres black BN



Molecular Weight: 456,55

CAS: 4197-25-5

EEC-N: 224-087-1

**Sudan black B > RS - For microscopy - C.I. 26150****RS**

Description .....	Black powder	Identification .....	Positive
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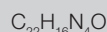
Code	Size	Packaging	Notes
464241	25 g	Glass bottle	

**Dye for histology****Sudan III**

Sudan III • Soudan III • Sudan III

Synonym:

1-[4-(Phenylazo)phenylazo]-2-naphthol



Molecular Weight: 352,4

CAS: 85-86-9

EEC-N: 201-638-4

**Sudan III > RS - For microscopy - C.I. 26100****RS**

Description .....	Red brick powder	Identification .....	Positive
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Code	Size	Packaging	Notes
485902	25 g	Glass bottle	

**Dye for histology**



## Sudan III hydroalcoholic saturated solution

Sudan III soluzione idroalcolica satura • Soudan III solution hydroalcoolique • Sudan III solución hidroalcohólica

Synonym:  
1-[4-(Phenylazo)phenylazo]-2-naphthol

$C_{22}H_{16}N_4O$   
Molecular Weight: 352,4  
CAS: 85-86-9

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group II



**Danger**  
H225-H319-H336  
P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Sudan III hydroalcoholic saturated solution > RS - For the colouring of neutral fats

RS

Description ..... Red clear liquid Identification ..... Positive Density at 20° C ..... 0.855 ÷ 0.861

Code	Size	Packaging	Notes
E485952	250 ml	Glass bottle	



## Sudan yellow

Giallo Sudan • Jaune Soudan • Amarillo Sudán

Synonym:  
Sudan I  
1-Phenylazo-2-naphthol

$C_{16}H_{12}N_2O$   
Molecular Weight: 248,28  
CAS: 842-07-9  
EEC-N: 212-668-2



**Warning**  
H317-H341-H351-H413  
P273-P261-P280g-P308+P313-P333+P313-P302+P352a

### Sudan yellow > RPE - For analysis - C.I. 12055

RPE

Description ..... Red-orange crystalline powder Identification ..... Positive

Code	Size	Packaging	Notes
453581	10 g	Glass bottle	
453582	25 g	Glass bottle	



## Sulfamic acid

Acido solfammico • Acide sulfamique • Acido sulfamico

Synonym:  
Amidosulfonic acid

$NH_2SO_3H$   
Molecular Weight: 97,09  
CAS: 5329-14-6  
EEC-N: 226-218-8

**Classification transport**  
ONU: 2967  
Transport Hazard class: 8  
Packing group III



**Warning**  
H315-H319-H412  
P264-P273-P280g-P305+P351+P338-P332+P313-P337+P313

### Sulfamic acid > RPE - For analysis - ACS

RPE

Description ..... White crystals Water-insoluble matter ..... ≤ 100 ppm Sulphate ..... ≤ 0.05 %  
Identification ..... Positive Heavy metals (Pb) ..... ≤ 10 ppm Fe ..... ≤ 5 ppm  
Chloride ..... ≤ 10 ppm Residue on ignition ..... ≤ 100 ppm Assay (acidimetric) ..... 99.3 ÷ 100.3 %

Code	Size	Packaging	Notes
410105	250 g	Plastic bottle	
410106	500 g	Plastic bottle	
410104	25 kg	Plastic bucket	

### Sulfamic acid > RE - Pure

RE

Description ..... White crystals Heavy metals (Pb) ..... ≤ 20 ppm Fe ..... ≤ 20 ppm  
Identification ..... Positive Sulphate ..... ≤ 0.3 % Assay ..... ≥ 99.5 %

Code	Size	Packaging	Notes
306507	1 kg	Plastic bottle	
306508	5 kg	Plastic jar	
306503	25 kg	Plastic bucket	



## Sulfanilamide

Solfanilammide • Sulfanilamide • Sulfanilamida

Synonym:  
*p*-Aminobenzenesulfonamide

$C_6H_8O_2N_2S$   
Molecular Weight: 172.21  
CAS: 63-74-1  
EEC-N: 200-563-4

### Sulfanilamide > RS - For microanalysis

RS

Description ..... White crystalline powder    Melting point .....  $164 \div 167^\circ C$     Assay .....  $\geq 97.5\%$  (s.s.)  
Identification ..... Positive    Loss on drying .....  $\leq 0.5\%$

Code	Size	Packaging	Notes
485961	2 g	Glass bottle	

### Sulfanilamide > RPE - For analysis

RPE

Code	Size	Packaging	Notes
485971	100 g	Plastic bottle	



## Sulfanilic acid

Acido solfanilico • Acide sulfanilique • Acido sulfanilico

Synonym:  
4-Aminobenzenesulfonic acid  
Aniline-4-sulfonic acid

$4-NH_2C_6H_4SO_3H$   
Molecular Weight: 173.19  
CAS: 121-57-3  
EEC-N: 204-482-5



### Warning

H315-H319-H317  
P264-P261-P280g-P280i-P305+P351+P338-  
P337+P313

### Sulfanilic acid > RS - For analysis according to Ph. Eur. Chap. 4.2.1

RS

Code	Size	Packaging	Notes
61200700	100 g	Plastic bottle	Ref Ph.Eur 200700

### Sulfanilic acid > RPE - For analysis - ACS - Reag. Ph.Eur.

RPE

Description ..... White powder    Sodium carbonate 5% ins .....  $\leq 200$  ppm    Chloride .....  $\leq 20$  ppm    Sulphate .....  $\leq 100$  ppm  
Identification ..... Positive    Residue on ignition .....  $\leq 100$  ppm    Nitrite .....  $\leq 0.5$  ppm    Assay (acidimetric) .....  $98.0 \div 102.0\%$

Code	Size	Packaging	Notes
410154	100 g	Plastic bottle	
410156	500 g	Plastic bottle	



## Sulfate standard solution

Solfati standard soluzione • Sulfate solution standard • Solfato, solución patrón

### Sulfate standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002801	100 ml	Plastic bottle	A 10 ppm solution R1 : to dilute according to Ref Ph.Eur 5002801
615002802	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5002802
615002809	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5002800

### Sulfate standard solution > RS - Standard solution for ion chromatography

RS

Code	Size	Packaging	Notes
503351	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
503353	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Sulphite standard solution

Solfite standard soluzione • Sulfite standard solution • Sulfito, solución patrón

### Sulphite standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615002900	100 ml	Plastic bottle	A 1,5 ppm solution Ref Ph.Eur 5002900



## Sulfolane

Sulfolano • Sulfolane • Sulfolano

Synonym:  
Tetrahydrothiophene 1,1-dioxide

CH<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>.SO<sub>2</sub>  
Molecular Weight: 120,17  
CAS: 126-33-0  
EEC-N: 204-783-1



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### Sulfolane > RS - Anhydrous - For analysis

RS

Water content (K.F.) ..... ≤ 200 mg/Kg Assay (GC) ..... ≥ 98.5 % Colourless to light yellow appearance ..... Conform

Code	Size	Packaging	Notes
P932SP16	1 l	Glass bottle	



## Sulfomolybdc reagent

Reattivo solfomolibdico • Réactif sulfomolybdique • Reactivo sulfomolibdico

### Classification transport

ONU: 1760  
Transport Hazard class: 8  
Packing group II



### Danger

H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sulfomolybdc reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611086500	100 ml	Plastic bottle	Sulfomolybdc reagent R3 Ref Ph.Eur 1086500



## Sulfosalicylic acid

Acido solfosalicilico • Acide sulfosalicylique • Acido sulfosalicilico

Synonym:  
2-Hydroxy-5-sulfobenzoic acid

HO.C<sub>6</sub>H<sub>3</sub>(COOH)SO<sub>3</sub>H.2H<sub>2</sub>O  
Molecular Weight: 254,2  
CAS: 5965-83-3  
EEC-N: 202-555-6



### Warning

H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

### Sulfosalicylic acid > RPE - For analysis - ACS

RPE

Description ..... Solido bianco Chloride ..... ≤ 10 ppm Residue on ignition ..... ≤ 0.1 % Assay (acidimetric) ..... 99.0 ÷ 101.0 %  
Identification ..... Positive Water-insoluble matter ..... ≤ 0.02 % Sulphate ..... ≤ 0.02 %  
Salicylic acid ..... ≤ 0.04 % Heavy metals (Pb) ..... ≤ 20 ppm Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
410894	100 g	Glass bottle	
410896	500 g	Plastic bottle	



## Sulfur standard solution

Zolfo standard soluzione • Soufre solution standard • Azufre, solución patrón

### Sulfur standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505822	100 ml	Plastic bottle	conc. 10 ppm Matrix : Water
505825	100 ml	Plastic bottle	conc. 100 ppm Matrix : Water
505823	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Sulfur standard solution &gt; RS - Standard solution for ICP

RS


Code	Size	Packaging	Notes
504291	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
504295	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504293	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Water
504297	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Sulfur sublimed and washed

Zolfo sublimato lavato ventilato • Soufre sublimé lavé ventilé • Azufre sublimado lavado

S	<b>Classification transport</b>		<b>Warning</b>
Molecular Weight: 32,06	ONU: 1350		H315
CAS: 7704-34-9	Transport Hazard class: 4.1		P264-P280g-P332+P313-P302+P352a-P321-
EEC-N: 231-722-6	Packing group III		P362+P364

## Sulfur sublimed and washed &gt; RE - Pure

RE


Description ..... Yellow powder    Residue on ignition ..... ≤ 0.1 %    Assay (gravimetric) ..... ≥ 99.5 %  
 Identification ..... Positive    Acidity (H<sub>2</sub>SO<sub>4</sub>) ..... ≤ 0.1 %

Code	Size	Packaging	Notes
378807	1 kg	Plastic bottle	
378809	5 kg	Plastic jar	
378802	25 kg	Plastic bucket	



## Sulfuric acid 98%

Acido solforico 98% • Acide sulfurique 98% • Acido sulfúrico 98%

H <sub>2</sub> SO <sub>4</sub>	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 98,08	ONU: 1830		H314
CAS: 7664-93-9	Transport Hazard class: 8		P264-P280-P301+P330+P331-P303+P361+P353-
EEC-N: 231-639-5	Packing group II		P304+P340-P305+P351+P338

## Sulfuric acid 98% &gt; RS - For microanalysis

RS

Description ..... Clear liquid    Identification ..... Positive    Density at 20° C ..... ~ 1.835    Assay ..... 95 ÷ 98 %

Code	Size	Packaging	Notes
410421	1 l	Glass bottle	

## Sulfuric acid 98% &gt; RPE - For nitrogen dosing

RPE

Description ..... Clear colourless liquid    Density at 20°C ..... ~ 1.84    Total nitrogen (N) ..... ≤ 2 ppm    Assay (acidimetric) ..... 95 - 98 %


Code	Size	Packaging	Notes
502641	2.5 l	Glass bottle	

Content is guaranteed for standardized volumes at 20 °C



## Sulfuric acid 96%

Acido solforico 96% • Acide sulfurique 96% • Acido sulfúrico 96%

H <sub>2</sub> SO <sub>4</sub>	<b>Classification transport</b>		<b>Danger</b>
Molecular Weight: 98,08	ONU: 1830		H314
CAS: 7664-93-9	Transport Hazard class: 8		P264-P280-P301+P330+P331-P303+P361+P353-
EEC-N: 231-639-5	Packing group II		P304+P340-P305+P351+P338

## Sulfuric acid 96% &gt; RS - VLSI For electronic use

RS

Code	Size	Packaging	Notes
527631	1 l	Plastic bottle	
527630	2.5 l	Glass bottle	

For specifications, contact our customer service for a certificate of analysis

## Sulfuric acid 96% > RS - RSE - For electronic use

RS

Description .....	Clear liquid	Ag .....	≤0.02 ppm	Cu .....	≤0.01 ppm	Pt .....	≤0.05 ppm
Colour (APHA) .....	≤10	Al .....	≤0.05 ppm	Fe .....	≤0.1 ppm	Sb .....	≤0.01 ppm
Identification .....	Positive	As .....	≤0.005 ppm	Ga .....	≤0.02 ppm	Se .....	≤0.5 ppm
Density at 20° C .....	1.834 ÷ 1.836	Au .....	≤0.05 ppm	In .....	≤0.02 ppm	Sn .....	≤0.02 ppm
Assay (acidimetric) .....	95.0 ÷ 97.0 %	B .....	≤0.01 ppm	K .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Ammonium .....	≤0.5 ppm	Ba .....	≤0.05 ppm	Li .....	≤0.02 ppm	Tl .....	≤0.05 ppm
Chloride .....	≤0.1 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Ti .....	≤0.05 ppm
Heavy metals (Pb) .....	≤0.4 ppm	Bi .....	≤0.02 ppm	Mn .....	≤0.01 ppm	V .....	≤0.05 ppm
Nitrate .....	≤0.1 ppm	Ca .....	≤0.2 ppm	Mo .....	≤0.01 ppm	Zn .....	≤0.02 ppm
Phosphate .....	≤0.5 ppm	Cd .....	≤0.005 ppm	Na .....	≤0.5 ppm	Zr .....	≤0.05 ppm
Residue on ignition .....	≤3 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.01 ppm		
Subst. reducing KMnO4 .....	≤2 ppm	Cr .....	≤0.01 ppm	Pb .....	≤0.02 ppm		

Code	Size	Packaging	Notes
410374	1 l	Glass bottle	
410371	2.5 l	Glass bottle	

## Sulfuric acid 96% > RS - MOS For electronic use

RS

Description .....	Clear liquid	Ag .....	≤0.02 ppm	Cu .....	≤0.01 ppm	Pt .....	≤0.05 ppm
Colour (APHA) .....	≤10	Al .....	≤0.05 ppm	Fe .....	≤0.1 ppm	Sb .....	≤0.01 ppm
Identification .....	Positive	As .....	≤0.005 ppm	Ga .....	≤0.02 ppm	Se .....	≤0.5 ppm
Density at 20° C .....	1.834 ÷ 1.836	Au .....	≤0.05 ppm	In .....	≤0.02 ppm	Sn .....	≤0.02 ppm
Assay (acidimetric) .....	95.0 ÷ 97.0 %	B .....	≤0.01 ppm	K .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Ammonium .....	≤0.5 ppm	Ba .....	≤0.05 ppm	Li .....	≤0.02 ppm	Tl .....	≤0.05 ppm
Chloride .....	≤0.1 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Ti .....	≤0.05 ppm
Heavy metals (Pb) .....	≤0.4 ppm	Bi .....	≤0.02 ppm	Mn .....	≤0.01 ppm	V .....	≤0.05 ppm
Nitrate .....	≤0.1 ppm	Ca .....	≤0.2 ppm	Mo .....	≤0.01 ppm	Zn .....	≤0.02 ppm
Phosphate .....	≤0.5 ppm	Cd .....	≤0.005 ppm	Na .....	≤0.5 ppm	Zr .....	≤0.05 ppm
Residue on ignition .....	≤3 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.01 ppm		
Subst. reducing KMnO4 .....	≤2 ppm	Cr .....	≤0.01 ppm	Pb .....	≤0.02 ppm		

Code	Size	Packaging	Notes
410382	1 l	Glass bottle	
410381	2.5 l	Glass bottle	

## Sulfuric acid 96% > RS - For enviromental analysis - ACS - Reag. Ph.Eur. - Reag. USP

RS

Description .....	Clear oily liquid	Subst. reducing KMnO4 .....	≤2 ppm	Cu .....	≤0.01 ppm	Se .....	≤3 ppm
Colour (APHA) .....	≤10	Ag .....	≤0.02 ppm	Fe .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Colour of 2N solution (APHA) .....	≤10	Al .....	≤0.05 ppm	Hg .....	≤0.005 ppm	Tl .....	≤0.05 ppm
Identification .....	Positive	As .....	≤0.005 ppm	K .....	≤0.1 ppm	Ti .....	≤0.05 ppm
Density at 20° C .....	1.834 ÷ 1.836	Ba .....	≤0.1 ppm	Li .....	≤0.02 ppm	V .....	≤0.05 ppm
Ammonium .....	≤1 ppm	Be .....	≤0.02 ppm	Mg .....	≤0.1 ppm	Zn .....	≤0.05 ppm
Chloride .....	≤0.1 ppm	Bi .....	≤0.02 ppm	Mn .....	≤0.01 ppm	Zr .....	≤0.05 ppm
Phosphate .....	≤0.5 ppm	Ca .....	≤0.2 ppm	Mo .....	≤0.01 ppm	Assay (acidimetric) .....	95.0 ÷ 97.0 %
Heavy metals (Pb) .....	≤0.8 ppm	Cd .....	≤0.005 ppm	Na .....	≤0.5 ppm		
Nitrate .....	≤0.2 ppm	Co .....	≤0.01 ppm	Ni .....	≤0.02 ppm		
Residue on ignition .....	≤4 ppm	Cr .....	≤0.05 ppm	Pb .....	≤0.02 ppm		

Code	Size	Packaging	Notes
410261	1 l	Glass bottle	

Low content in Hg

**Sulfuric acid 96% > RPE - For analysis - ISO****RPE**

Description .....	Clear oily liquid	Heavy metals (Pb).....	≤0.8 ppm	Cu .....	≤0.01 ppm	Pb .....	≤0.02 ppm
Colour (APHA) .....	≤10	Nitrate .....	≤0.2 ppm	Fe .....	≤0.1 ppm	Se .....	≤3 ppm
Colour of 2N solution (APHA) .....	≤10	Residue on ignition .....	≤4 ppm	K .....	≤0.1 ppm	Sr .....	≤0.02 ppm
Identification .....	Positive	Subst. reducing KMnO4 .....	≤2 ppm	Li .....	≤0.02 ppm	Zn .....	≤0.05 ppm
Density at 20° C .....	1.834 ÷ 1.836	As .....	≤0.01 ppm	Mg .....	≤0.2 ppm	Assay (acidimetric) .....	95 ÷ 97 %
Ammonium .....	≤1 ppm	Ca .....	≤0.2 ppm	Na .....	≤0.5 ppm		
Chloride .....	≤0.1 ppm	Cd .....	≤0.005 ppm	Ni .....	≤0.05 ppm		

Code	Size	Packaging	Notes
410301	1 l	Glass bottle	
410303	1 l	Glass bottle PVC coated	
524540	1 l	Plastic bottle	
410306	2.5 l	Glass bottle	
524541	2.5 l	Plastic bottle	
524543	25 l	Plastic drum	
410307	30 kg	Plastic drum	
410302	50 kg	Plastic drum	

**Content is guaranteed for standardized volumes at 20 °C****Sulfuric acid 96% > ERBApharm - According to pharmacopoeia : BP-NF-Ph.Eur.****ERBApharm**

Description .....	Clear colourless liquid	Nitrate .....	Conform Ph.Eur.	Chloride .....	≤ 50 ppm	Fe .....	≤ 25 ppm
Identification .....	Positive	Density at 20° C .....	~ 1.84	Heavy metals (Pb).....	≤ 5 ppm	Assay (acidimetric) .....	95.0 ÷ 98.0 %
Appearance of solution .....	Conform Ph.Eur.	Sulphated ash .....	≤ 50 ppm	As .....	≤ 1 ppm	Subst. reducing KMnO4 ...	Conform USP-NF

Code	Size	Packaging	Notes
306651	1 l	Glass bottle	
306657	2.5 l	Glass bottle	
306653	50 kg	Plastic drum	

**Sulfuric acid 96% (66°Be)**

Acido solforico 96% (66°Be) • Acide sulfurique 96% (66°Bé) • Acido sulfúrico 96% (66°Bé)

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9  
EEC-N: 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II

**Danger**

H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

**Sulfuric acid 96% (66°Be) > RE - Pure****RE**

Description .....	Clear or opaline colourless liquid	Density at 20° C .....	1.830 ÷ 1.836	Cu .....	≤ 0.02 ppm	Pb .....	≤ 0.03 ppm
Identification .....	Positive	Chloride .....	≤500 ppm	Assay (acidimetric) .....	≥96 %	Zn .....	≤ 0.25 ppm

Code	Size	Packaging	Notes
306751	2.5 l	Glass bottle	
306755	25 kg	Plastic bucket	
306752	50 kg	Plastic drum	

**Sulfuric acid 95 - 97 %**

Acido solforico 95 - 97 % • Acide sulfurique 95 - 97 % • Acido sulfúrico 95 - 97 %

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9  
EEC-N: 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II

**Danger**

H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

**Sulfuric acid 95 - 97 % > RPE - For nitrogen dosing - Reag.Ph.Eur.****RPE**

Description .....	Clear oily liquid	Ammonium .....	≤ 1 ppm	Residue on ignition .....	≤ 4 ppm	Subs. reducing KMnO4 .....	Pass test
Identification .....	Positive	Chloride .....	≤ 0.1 ppm	As .....	≤ 0.01 ppm	Test nitrate (Ph.Eur.) .....	Pass test
Colour .....	≤ 10 APHA	Heavy metals (Pb).....	≤ 0.8 ppm	Fe .....	≤ 0.1 ppm	Assay (acidimetric) .....	95.0 ÷ 97.0 %
Density at 20°C .....	1.834 ÷ 1.836	Nitrate .....	≤ 0.2 ppm	Total nitrogen .....	≤ 2 ppm		

Code	Size	Packaging	Notes
502302	1 l	Glass bottle	



## Sulfuric acid 93-98%

Acido solforico 93-98% • Acide sulfurique 93-98% • Acido sulfúrico 93-98%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9  
EEC-N: 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II



### Danger

H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sulfuric acid 93-98% > RS - Ultrapure - For trace analysis at ppt level

RS

Description	Clear colourless liquid	Mg	≤ 50 ppt	Dy	≤ 10 ppt	Rb	≤ 10 ppt
Identification	Positive	Mn	≤ 10 ppt	Er	≤ 10 ppt	Sm	≤ 10 ppt
Ag	≤ 50 ppt	Mo	≤ 10 ppt	Eu	≤ 10 ppt	Sc	≤ 10 ppt
Al	≤ 50 ppt	Na	≤ 50 ppt	Gd	≤ 50 ppt	Se	≤ 500 ppt
As	≤ 500 ppt	Ni	≤ 50 ppt	Ga	≤ 10 ppt	Te	≤ 50 ppt
Ba	≤ 10 ppt	Pb	≤ 10 ppt	Ge	≤ 100 ppt	Tb	≤ 10 ppt
Be	≤ 10 ppt	Sn	≤ 50 ppt	Hf	≤ 10 ppt	Tl	≤ 10 ppt
Bi	≤ 10 ppt	Sr	≤ 10 ppt	Ho	≤ 10 ppt	Tm	≤ 10 ppt
Ca	≤ 50 ppt	Ti	≤ 50 ppt	In	≤ 10 ppt	W	≤ 10 ppt
Cd	≤ 10 ppt	V	≤ 10 ppt	La	≤ 10 ppt	U	≤ 10 ppt
Co	≤ 10 ppt	Zn	≤ 50 ppt	Li	≤ 10 ppt	Y	≤ 10 ppt
Cr	≤ 10 ppt	Assay (acidimetric)	93 ÷ 98 %	Lu	≤ 10 ppt	Yb	≤ 10 ppt
Cu	≤ 10 ppt	Th	≤ 10 ppt	Nd	≤ 10 ppt	Zr	≤ 10 ppt
Fe	≤ 50 ppt	Sb	≤ 50 ppt	Nb	≤ 10 ppt		
Hg	≤ 100 ppt	Ce	≤ 10 ppt	Pr	≤ 10 ppt		
K	≤ 50 ppt	Cs	≤ 10 ppt	Rh	≤ 50 ppt		

Code	Size	Packaging	Notes
410351	500 ml	Plastic bottle	

### Sulfuric acid 93-98% > RS - Superpure - For trace analysis at ppb level

RS

Description	Clear liquid	Mn	≤ 0.5 ppb	Cs	≤ 0.1 ppb	Sm	≤ 0.1 ppb
Identification	Positive	Mo	≤ 0.5 ppb	Dy	≤ 0.1 ppb	Sc	≤ 0.1 ppb
Ag	≤ 1 ppb	Na	≤ 1 ppb	Er	≤ 0.1 ppb	Te	≤ 0.1 ppb
Al	≤ 1 ppb	Ni	≤ 0.5 ppb	Eu	≤ 0.1 ppb	Tl	≤ 0.1 ppb
As	≤ 0.5 ppb	Pb	≤ 0.1 ppb	Gd	≤ 0.1 ppb	Tm	≤ 0.1 ppb
Ba	≤ 0.1 ppb	Sb	≤ 1 ppb	Ga	≤ 0.1 ppb	W	≤ 0.5 ppb
Be	≤ 0.1 ppb	Se	≤ 10 ppb	Ge	≤ 1 ppb	U	≤ 0.1 ppb
Bi	≤ 0.1 ppb	Sn	≤ 1 ppb	Hf	≤ 0.1 ppb	Yb	≤ 0.1 ppb
Ca	≤ 1 ppb	Sr	≤ 0.5 ppb	Ho	≤ 0.1 ppb	Y	≤ 0.1 ppb
Cd	≤ 0.5 ppb	Ti	≤ 1 ppb	In	≤ 0.1 ppb	Tb	≤ 0.1 ppb
Co	≤ 0.5 ppb	V	≤ 0.5 ppb	La	≤ 0.1 ppb	Chloride	≤ 0.7 ppm
Cr	≤ 0.5 ppb	Zn	≤ 1 ppb	Lu	≤ 0.1 ppb	Nitrate	≤ 0.2 ppm
Cu	≤ 0.5 ppb	Zr	≤ 0.5 ppb	Nd	≤ 0.1 ppb	Total phosphorus	≤ 0.05 ppm
Hg	≤ 0.1 ppb	Assay (acidimetric)	93 ÷ 98 %	Nb	≤ 0.1 ppb	Reducing substances KMnO <sub>4</sub>	≤ 20 ppm
K	≤ 1 ppb	Th	≤ 0.1 ppb	Pr	≤ 0.1 ppb		
Li	≤ 0.5 ppb	Colour (APHA)	≤ 10	Rh	≤ 0.5 ppb		
Mg	≤ 1 ppb	Ce	≤ 0.1 ppb	Rb	≤ 0.5 ppb		

Code	Size	Packaging	Notes
410405	500 ml	Plastic bottle	
410406	1 l	Plastic bottle	
410407	2.5 l	Plastic bottle	



## Sulfuric acid 90%

Acido solforico 90% • Acide sulfurique 90% • Acido sulfúrico 90%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9  
EEC-N: 231-639-5

**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II



### Danger

H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Sulfuric acid 90% > RS - For analysis according to Gerber

RS

Description ..... Clear colourless liquid Density at 20° C ..... 1.815 - 1.825 Assay (acidimetric) ..... 90 - 92 %

Code	Size	Packaging	Notes
410391	1 l	Glass bottle	
410394	2.5 l	Glass bottle	
E410395	50 kg	Plastic drum	



**Sulfuric acid 72%**

Acido solforico 72% • Acide sulfurique 72% • Acido sulfúrico 72%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sulfuric acid 72% > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid    Colour ..... ≤ 10 APHA    Density at 20°C ..... 1.629 ÷ 1.639    Assay ..... 71.50 ÷ 72.50 %

Code	Size	Packaging	Notes
502771	2.5 l	Glass bottle	

**Sulfuric acid 69%**

Acido solforico 69% • Acide sulfurique 69% • Acido sulfúrico 69%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**  
ONU: 1830  
Transport Hazard class: 8  
Packing group II**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sulfuric acid 69% > RS - For milk analysis****RS**

Clear, colourless solution ..... Conform    Sulfuric acid content ..... 68.0 - 70.0 %    Density d20/4 ..... 1.587- 1.611

Code	Size	Packaging	Notes
PS0893/21	2.5 l	Glass bottle	

**Sulfuric acid 50%**

Acido solforico 50% • Acide sulfurique 50% • Acido sulfúrico 50%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sulfuric acid 50% > RE - Pure****RE**Description ..... Clear colourless liquid    Density at 20° C ..... 1.385 ÷ 1.405    Assay (acidimetric) ..... 49.0 ÷ 51.0 %  
Identification ..... Positive    Density at 20°C ..... 1.385 ÷ 1.405

Code	Size	Packaging	Notes
E306702	1 l	Bottle	
528541	5 l	Plastic tank	
E306704	35 kg	Drum	

**Sulfuric acid 35% (30°Be)**

Acido solforico 35% (30°Be) • Acide sulfurique 35% (30°Be) • Acido sulfúrico 35% (30°Be)

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Sulfuric acid 35% (30°Be) > RE - Pure****RE**

Description ..... Clear or opaline colourless liquid    Density at 20° C ..... 1.252 - 1.260    Assay ..... 34.0 - 35.0 %

Code	Size	Packaging	Notes
307001000	30 kg	Plastic tank	



## Sulfuric acid 25 %

Acido solforico 25% • Acide sulfurique 25 % • Acido sulfúrico 25 %

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Sulfuric acid 25 % > RE - Pure

RE

Density d20/4 ..... 1.174 - 1.182 Sulfuric acid content ..... 24.5 - 25.5 %

Code	Size	Packaging	Notes
PS0212/21	2.5 l	Glass bottle	



## Sulfuric acid 20%

Acido solforico 20% • Acide sulfurique 20% • Acido sulfúrico 20%

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Sulfuric acid 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Density at 20° C ..... 1.136 - 1.158 Assay ..... 20 - 22 %

Code	Size	Packaging	Notes
410511000	1 l	Plastic bottle	
410516	20 kg	Plastic drum	

**Content is guaranteed for standardized volumes at 20°C. Keep tightly**



## Sulfuric acid 10% v/v

Acido solforico 10% v/v • Acide sulfurique 10% v/v • Acido sulfúrico 10% V/V

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Sulfuric acid 10% v/v > RPE - For analysis

RPE

Density at 20°C ..... 1.12 - 1.14

Code	Size	Packaging	Notes
502591	1 l	Bottle	



## Sulfuric acid 4 mol/l (8N)

Acido solforico 4 mol/l (8N) • Acide sulfurique 4 mol/l (8N) • Acido sulfúrico 4 mol/l (8N)

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Sulfuric acid 4 mol/l (8N) > RS - For environmental analysis (COD determination)

RS

Description ..... Clear colourless liquid Assay ..... 7.984 - 8.016 N

Code	Size	Packaging	Notes
526741	1 l	Bottle	

**Sulfuric acid 2.5 mol/l (5N)**

Acido solforico 2.5 mol/l (5N) • Acide sulfurique 2.5 mol/l (5N) • Acido sulfúrico 2.5 mol/l (5N)

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II**Danger**  
H314  
P264-P260h-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338**Sulfuric acid 2.5 mol/l (5N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 4.995 - 5.005 N

Code	Size	Packaging	Notes
P3240015	1 l	Plastic bottle	

**Sulfuric acid 1 mol/l (2N)**

Acido solforico 1 mol/l (2N) • Acide sulfurique 1 mol/l (2N) • Acido sulfúrico 1 mol/l (2N)

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9**Classification transport**  
ONU: 2796  
Transport Hazard class: 8  
Packing group II**Danger**  
H314  
P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P337+P313**Sulfuric acid 1 mol/l (2N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 1.998 - 2.002 N NIST 723.....e

Code	Size	Packaging	Notes
410547000	1 l	Plastic bottle	
410548000	10 l	Plastic tank	

**98.06 g of H2SO4. Volumetric solution ready-to-use : 2N. Traceable to NIST****Sulfuric acid 0.5 mol/l (1N)**

Acido solforico 0.5 mol/l (1N) • Acide sulfurique 0,5 mol/l (1N) • Acido sulfúrico 0.5 mol/l (1N)

H<sub>2</sub>SO<sub>4</sub>  
Molecular Weight: 98,08  
CAS: 7664-93-9

HEU210

**Sulfuric acid 0.5 mol/l (1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613007800	1 l	Plastic bottle	Ref Ph.Eur 3007800

**Sulfuric acid 0.5 mol/l (1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.999 - 1.001 N NIST 723.....e

Code	Size	Packaging	Notes
410577000	1 l	Plastic bottle	
410572000	5 l	Kubidos	
410575000	5 l	Plastic tank	
410571000	10 l	Kubidos	

**49.03 g of H2SO4. Volumetric solution ready-to-use : 1N. Traceable to NIST****Sulfuric acid 0.5 mol/l (1N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410591		Plastic ampoule	Volume : 165 ml

**49,04 g of H2SO4 . Volumetric concentrated solution to prepare 1 L of solution 1 N**



## Sulfuric acid 0.33 mol/l (2N/3)

Acido solforico 0.33 mol/l (2N/3) • Acide sulfurique 0.33 mol/l (2N/3) • Acido sulfúrico 0.33 mol/l (2N/3)

H<sub>2</sub>SO<sub>4</sub> HEU210  
 Molecular Weight: 98,08  
 CAS: 7664-93-9

### Sulfuric acid 0.33 mol/l (2N/3) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.6653 - 0.6680 N

Code	Size	Packaging	Notes
410634	1 l	Plastic bottle	

**32,363 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use: 2 N/3. Content is guaranteed for standardized volumes at 20 °C**



## Sulfuric acid 0.26 mol/l (0.52N)

Acido solforico 0.26 mol/l (0.52N) • Acide sulfurique 0.26 mol/l (0.52N) • Acido sulfúrico 0.26 mol/l (0.52N)

H<sub>2</sub>SO<sub>4</sub> HEU210  
 Molecular Weight: 98,08  
 CAS: 7664-93-9

### Sulfuric acid 0.26 mol/l (0.52N) > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Aspect ..... Conform Assay ..... 0.515 ÷ 0.525 N

Code	Size	Packaging	Notes
502202	5 l	Plastic tank	



## Sulfuric acid 0.25 mol/l (0.5N)

Acido solforico 0.25 mol/l (0.5N) • Acide sulfurique 0.25 mol/l (0.5N) • Acido sulfúrico 0.25 mol/l (0.5N)

H<sub>2</sub>SO<sub>4</sub> HEU210  
 Molecular Weight: 98,08  
 CAS: 7664-93-9

### Sulfuric acid 0.25 mol/l (0.5N) > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.4995 - 0.5005 N NIST 723 ..... e  
 Identification ..... Positive Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
410667000	1 l	Plastic bottle	
410663000	5 l	Kubidos	
410662000	10 l	Kubidos	

**24,52 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use : 0.5N. Traceable to NIST**

### Sulfuric acid 0.25 mol/l (0.5N) > RPE - NORMEX - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410681		Plastic ampoule	Volume : 55 ml

**24,52 g H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,5 N**



## Sulfuric acid 0.166 mol/l (0.333N)

Acido solforico 0.166 mol/l (0.333N) • Acide sulfurique 0.166 mol/l (0.333N) • Acido sulfúrico 0.166 mol/l (0.333N)

H<sub>2</sub>SO<sub>4</sub> HEU210  
 Molecular Weight: 98,08  
 CAS: 7664-93-9

### Sulfuric acid 0.166 mol/l (0.333N) > RPE - For analysis

RPE

Assay (potentiometry) ..... 0.3331 - 0.3337 N

Code	Size	Packaging	Notes
PS0217/15	1 l	Bottle	

**Sulfuric acid 0.13 mol/l (0.26N)**

Acido solforico 0.13 mol/l (0.26N) • Acide sulfurique 0.13 mol/l (0.26N) • Acido sulfúrico 0.13 mol/l (0.26N)



HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

**Sulfuric acid 0.13 mol/l (0.26N) > RS - For agroalimentary analysis****RS**

Description ..... Clear colourless liquid Assay ..... 0.255 ÷ 0.265 N

Code	Size	Packaging	Notes
502651	5 l	Plastic tank	

**Content is guaranteed for standardized volumes at 20 °C. Keep tightly closed****Sulfuric acid 0.125 mol/l (0.25N)**

Acido solforico 0.125 mol/l (0.25N) • Acide sulfurique 0.125 mol/l (0.25N) • Acido sulfúrico 0.125 mol/l (0.25N)



HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

**Sulfuric acid 0.125 mol/l (0.25N) > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.2495 - 0.2505 N

Code	Size	Packaging	Notes
PS0445/22	5 l	Plastic tank	
PS0445/41	10 l	Plastic tank	

**Sulfuric acid 0.1 mol/l (0.2N)**

Acido solforico 0.1 mol/l (0.2N) • Acide sulfurique 0.1 mol/l (0.2N) • Acido sulfúrico 0.1 mol/l (0.2N)



HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

**Sulfuric acid 0.1 mol/l (0.2N) > RS - For agroalimentary analysis****RS**

Description ..... Clear liquid Aspect ..... Conform Assay ..... 0.195 ÷ 0.205 N

Code	Size	Packaging	Notes
502100000	1 l	Plastic bottle	

**Sulfuric acid 0.05 mol/l (0.1N)**

Acido solforico 0.05 mol/l (0.1N) • Acide sulfurique 0.05 mol/l (0.1N) • Acido sulfúrico 0.05 mol/l (0.1N)



HEU210

Molecular Weight: 98,08

CAS: 7664-93-9

**Sulfuric acid 0.05 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613008001	500 ml	Plastic bottle	Ref Ph.Eur 3008000
613008000	1 l	Plastic bottle	Ref Ph.Eur 3008000

**Sulfuric acid 0.05 mol/l (0.1N) > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Assay (potentiometry) ..... 0.0999 - 0.1001 N NIST 723.....e

Code	Size	Packaging	Notes
410717000	1 l	Plastic bottle	
410712000	5 l	Kubidos	
410711000	10 l	Kubidos	
410714000	20 l	Plastic tank	
410713000	25 l	Plastic tank	

**4.904 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric solution ready-to-use : 0.1 N. Traceable to NIST**

## Sulfuric acid 0.05 mol/l (0.1N) > RPE - NORMEX - For analysis

**RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410731		Plastic ampoule	Volume : 55 ml

**4,904 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,1 N**


## Sulfuric acid 0.025 mol/l (0.05N)

Acido solforico 0.025 mol/l (0.05N) • Acide sulfurique 0.025 mol/l (0.05N) • Acido sulfúrico 0.025 mol/l (0.05N)

H <sub>2</sub> SO <sub>4</sub>	HEU210
Molecular Weight: 98,08	
CAS: 7664-93-9	

## Sulfuric acid 0.025 mol/l (0.05N) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.0499 - 0.0501 N

Code	Size	Packaging	Notes
PS0016/96	10 l	Kubidos	



## Sulfuric acid 0.02 mol/l (0.04N)

Acido solforico 0.02 mol/l (0.04N) • Acide sulfurique 0.02 mol/l (0.04N) • Acido sulfúrico 0.02 mol/l (0.04N)

H <sub>2</sub> SO <sub>4</sub>	HEU210
Molecular Weight: 98,08	
CAS: 7664-93-9	

## Sulfuric acid 0.02 mol/l (0.04N) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.03992 - 0.04008 N

Code	Size	Packaging	Notes
PS0219/15	1 l	Bottle	
PS0219/95	5 l	Kubidos	
PS0219/96	10 l	Kubidos	



## Sulfuric acid 0.01 mol/l (0.02N)

Acido solforico 0.01 mol/l (0.02N) • Acide sulfurique 0.01 mol/l (0.02N) • Acido sulfúrico 0.01 mol/l (0.02N)

H <sub>2</sub> SO <sub>4</sub>	HEU210
Molecular Weight: 98,08	
CAS: 7664-93-9	

## Sulfuric acid 0.01 mol/l (0.02N) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.01996 - 0.02004 N

Code	Size	Packaging	Notes
PS0047/15	1 l	Bottle	
PS0047/95	5 l	Kubidos	
PS0047/96	10 l	Kubidos	



## Sulfuric acid 0.005 mol/l (0.01N)

Acido solforico 0.005 mol/l (0.01N) • Acide sulfurique 0.005 mol/l (0.01N) • Acido sulfúrico 0.005 mol/l (0.01N)

H <sub>2</sub> SO <sub>4</sub>	HEU210
Molecular Weight: 98,08	
CAS: 7664-93-9	

## Sulfuric acid 0.005 mol/l (0.01N) > RPE - For analysis

**RPE**

Assay (potentiometry) ..... 0.00998 - 0.01002 N

Code	Size	Packaging	Notes
PS0026/95	5 l	Kubidos	

**Sulfuric acid 0.005 mol/l (0.01N) > RPE - NORMEX - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
410791		Plastic ampoule	Volume : 55 ml

**0,490 g of H<sub>2</sub>SO<sub>4</sub>. Volumetric concentrated solution to prepare 1 L of solution 0,01 N****Sulfuric acid 0.0025 mol/l (0.005N)**

Acido solforico 0.0025 mol/l (0.005N) • Acide sulfurique 0.0025 mol/l (0.005N) • Acido sulfúrico 0.0025 mol/l (0.005N)



Molecular Weight: 98.08

CAS: 7664-93-9

**Sulfuric acid 0.0025 mol/l (0.005N) > RS - For analysis****RS**

Assay (potentiometry) ..... 0.00495 - 0.00505 N

Code	Size	Packaging	Notes
424111	10 l	Kubidos	

**Content is guaranteed for standardized volumes at 20 °C****Sulfuric acid 0.0025 mol/l (0.005N) > RS - For analysis according to Ph. Eur.Chapter 2.2.25****RS**

Code	Size	Packaging	Notes
506401	100 ml	Glass bottle	Spectrophotometry Absorbance/Transmission Blank

**Sulfuric acid with 10 g/L Ag<sub>2</sub>SO<sub>4</sub>**Argento solfato 10 g/L in acido solforico • Acide sulfurique à 10g/L Ag<sub>2</sub>SO<sub>4</sub> • Acido sulfúrico con 10 g/L de Ag<sub>2</sub>SO<sub>4</sub>

Molecular Weight: 98,08

CAS: 7664-93-9

**Classification transport**

ONU: 1830

Transport Hazard class: 8

Packing group II

**Danger**

H314-H318

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Sulfuric acid with 10 g/L Ag<sub>2</sub>SO<sub>4</sub> > RS - For environmental analysis (COD determination)****RS**

Assay ..... 9.0 ÷ 11.0 g/l

Code	Size	Packaging	Notes
526605	1 l	Glass bottle	
526606	2.5 l	Glass bottle	

**According to NF T90101 of 02/2001****Sulfuric acid with 6.6 g/l Ag<sub>2</sub>SO<sub>4</sub>**Argento solfato 6.6 g/l in acido solforico • Acide sulfurique 6.6 g/l Ag<sub>2</sub>SO<sub>4</sub> • Acido sulfúrico 6.6 g/l Ag<sub>2</sub>SO<sub>4</sub>

Molecular Weight: 98,08

CAS: 7664-93-9

**Classification transport**

ONU: 1830

Transport Hazard class: 8

Packing group II

**Danger**

H314-H318

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

**Sulfuric acid with 6.6 g/l Ag<sub>2</sub>SO<sub>4</sub> > RS - For environmental analysis (COD determination)****RS**

Assay ..... 6.0 ÷ 7.2 g/l

Code	Size	Packaging	Notes
526602	2.5 l	Glass bottle	

**According to NF T90101 of 02/2001**



## Sulfuric acid d=1,820

Acido solforico d=1,820 • Acide sulfurique d=1,820 • Acido sulfúrico d=1,820



Molecular Weight: 98,08

CAS: 7664-93-9

EEC-N: 231-639-5

### Classification transport

ONU: 1830

Transport Hazard class: 8

Packing group II



### Danger

H314

P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Sulfuric acid d=1,820 > RS - For agroalimentary analysis

RS

Description ..... Clear colourless liquid Colour (APHA) ..... ≤ 10 APHA Density at 20°C ..... 1.815 ÷ 1.825

Code	Size	Packaging	Notes
502020	5 l	Plastic tank	

According to NF V04-263 and V04-210



## Sulfuric acid, dilute

Acido solforico, diluito • Acide sulfurique diluée • Acido sulfúrico, diluido



Molecular Weight: 98,08

CAS: 7664-93-9

### Classification transport

ONU: 2796

Transport Hazard class: 8

Packing group II



### Danger

H314

P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P337+P313

### Sulfuric acid, dilute > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611086804	1 l	Plastic bottle	A 98 g/l solution Ref Ph.Eur 1086804



**Talc**

Talco • Talc • Talco

Synonym:  
Hydrous magnesium silicate

3MgO·4SiO<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight: 379,29  
CAS: 14807-96-6  
EEC-N: 238-877-9

**Talc > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP****ERBApharm**

Description ..... White powder    Al ..... ≤ 2.0 %    Pb ..... ≤ 10 ppm    **Microbial tests**  
Identification ..... Positive    Ca ..... ≤ 0.90 %    Loss on ignition ..... ≤ 7.0 %    TAMC ..... ≤ 100 CFU/g  
Acidity or alkalinity ..... Conform    Fe ..... ≤ 0.25 %    Asbestos ..... Absent    TYMC ..... ≤ 50 CFU/g  
Sostanze idrosolubili ..... ≤ 0.1 %    Mg ..... 17.0 ÷ 19.5 %

Code	Size	Packaging	Notes
382107	1 kg	Plastic bottle	
382109	5 kg	Plastic jar	
382105	25 kg	Plastic bucket	

**Tannic acid**

Acido tannico • Acide tannique • Acido tánico

Synonym:  
Gallotannin

C<sub>76</sub>H<sub>52</sub>O<sub>46</sub>  
Molecular Weight: 1701,23  
CAS: 1401-55-4  
EEC-N: 215-753-2

**Warning**

H302-H412  
P264-P273-P270-P330-P301+P312a-P501a

**Tannic acid > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU****ERBApharm**

Description ..... Yellowish powder    Loss on drying ..... ≤ 12.0 %    As ..... ≤ 3 ppm    Appearance of solution ..... Conform Ph.Eur.  
Identification ..... Positive    Sulphated ash ..... ≤ 0.1 %    Dextrins, gum, salts, sugars Conform Ph.Eur.    Resins ..... Conform Ph.Eur.

Code	Size	Packaging	Notes
307157	1 kg	Bag	
307152	5 kg	Plastic jar	
307153	25 kg	Plastic bucket	

**Tannic acid > RE - Pure****RE**

Description ..... Brown powder    Water solubility ..... Conform    Water ..... < 7 %    Assay (gravimetric) ..... > 94 % s.s.  
Identification ..... Positive    Alcohol solubility ..... Conform    Sulphated ash ..... < 0.3 %

Code	Size	Packaging	Notes
411074	100 g	Plastic bottle	
411076	500 g	Plastic bottle	
411077	5 kg	Plastic jar	

**Tantalum standard solution**

Tantalio standard soluzione • Tantale solution standard • Tántalo, solución patrón

**Classification transport**

ONU: 1760  
Transport Hazard class: 8  
Packing group III

**Tantalum standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505872	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505875	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Tantalum standard solution > RS - Standard solution for ICP

**RS**

Code	Size	Packaging	Notes
503961	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503965	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid
503963	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
503967	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrofluoric acid and nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Tantalum standard solution > RS - Standard solution for AAS

**RS**

Code	Size	Packaging	Notes
507761	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507517	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## L(+)- Tartaric Acid

Acido L(+)-tartarico • Acide L(+)-tartrique • Acido L(+)-tartárico

HOOC(CHOH)<sub>2</sub>COOH  
Molecular Weight: 150,09  
CAS: 87-69-4  
EEC-N: 201-766-0



### Warning

H319  
P264-P280-P305+P351+P338-P337+P313

## L(+)- Tartaric Acid > RPE - For analysis - ACS - ISO

**RPE**

Description .....	White crystalline powder	Residue on ignition .....	≤200 ppm	Oxalate .....	Conform	Fe .....	≤5 ppm
Identification .....	Positive	Chloride .....	≤10 ppm	Sulfur compounds (as SO <sub>4</sub> ) .....	≤20 ppm	Assay (acidimetric) .....	≥99.0 %
Water-insoluble matter .....	≤50 ppm	Phosphate .....	≤10 ppm	Heavy metals (Pb) .....	≤5 ppm		

Code	Size	Packaging	Notes
411125	250 g	Plastic bottle	
411127	1 kg	Plastic bottle	
411121	25 kg	Plastic bucket	

## L(+)- Tartaric Acid > ERBApharm - According to pharmacopoeia : DAB-BP-FU-NF-Ph.Eur.-Ph.Franc.

**ERBApharm**

Description .....	White crystalline powder	Loss on drying .....	≤0.2 %	Sulphate .....	≤150 ppm	Assay (acidimetric) .....	99.7 ÷ 100.5 % s.s.
Identification .....	Positive	Sulphated ash .....	≤0.1 %	Heavy metals (Pb) .....	≤10 ppm	Residual solvents (Current ICH) .....	Conform
Appearance of solution .....	Conform Ph.Eur.	Oxalic acid .....	≤350 ppm	Calcium .....	≤200 ppm		
Specific optical rotation ...	+12.0 ÷ +12.8 °	Chloride .....	≤100 ppm	Origin (BSE/TSE) .....	Vegetable		

Code	Size	Packaging	Notes
307357	1 kg	Plastic bottle	
307359	5 kg	Plastic jar	

## L(+)- Tartaric Acid > ERBApharm - Crystals - According to pharmacopoeia : Ph.Eur.-NF-FU-Ph.Franc.-BP-

**ERBApharm**

Description .....	Colourless crystals	Specific optical rotation ...	+12.0 ÷ +12.8 °	Chloride .....	≤ 100 ppm	Assay (acidimetric) .....	99.7 ÷ 100.5 % s.s.
Identification .....	Positive	Loss on drying .....	≤ 0.2 %	Sulphate .....	≤ 150 ppm	Origin (BSE/TSE) .....	Vegetable
Appearance of solution .....	Conform Ph.Eur.	Sulphated ash .....	≤ 0.1 %	Heavy metals (Pb) .....	≤ 10 ppm		
Residual solvents (Current ICH) .....	Conform	Oxalic acid .....	≤ 350 ppm	Calcium .....	≤ 200 ppm		

Code	Size	Packaging	Notes
307307	1 kg	Plastic bottle	
307309	5 kg	Plastic jar	
307301	25 kg	Plastic bucket	
307304	50 kg	Plastic bucket	

**L(+)-Tartaric acid solution 20% in water**

Acido L(+)-tartarico soluzione 20% in acqua • Acide L(+)-tartrique 20% • Acido L(+)-tartárico solución 20% en agua

HOOC(CHOH)<sub>2</sub>COOH  
Molecular Weight: 150,09  
CAS: 87-69-4

**Warning**

H319  
P264-P280-P305+P351+P338-P337+P313

**L(+)-Tartaric acid solution 20% in water > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 15° C ..... ~ 1.10 Assay (acidimetric) ..... 20 ± 21 %

Code	Size	Packaging	Notes
E411131	1 l	Bottle	

**L(-)-Tartaric acid diammonium salt ▶ Ammonium L(+)-tartrate****Tartrazine**

Tartrazina • Tartrazine • Tartracina

Synonym:

Acid Yellow 23

C<sub>16</sub>H<sub>9</sub>N<sub>4</sub>Na<sub>3</sub>O<sub>9</sub>S<sub>2</sub>  
Molecular Weight: 534,39  
CAS: 1934-21-0  
EEC-N: 217-699-5

**Tartrazine > RS - For microscopy - C.I. 19140****RS**

Description ..... Orange powder Identification ..... Positive Loss on drying ..... ≤ 6 % Assay (oxidimetric) ..... ≥ 85 %

Code	Size	Packaging	Notes
486903	50 g	Glass bottle	

**Dye for histology****Tauber reagent**

Tauber reattivo • Réactif de Tauber • Tauber reactivo

HEU210

**Tauber reagent > RS - For microscopy****RS**

Description ..... Yellow clear liquid Identification ..... Positive Sensibilità acido ascorbico ..... Conform

Code	Size	Packaging	Notes
490422	500 ml	Glass bottle	

**Taurine**

Taurina • Taurine • Taurina

Synonym:

2-Aminoethanesulfonic acid

NH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>SO<sub>3</sub>H  
Molecular Weight: 125,15  
CAS: 107-35-7  
EEC-N: 203-483-8

**Warning**

H315-H319-H335  
P264-P271-P304+P340-P305+P351+P338-P312a-  
P332+P313

**Taurine > RPE - For analysis****RPE**

Description ..... White crystals Chloride ..... ≤ 110 ppm As ..... ≤ 2 ppm Assay (acidimetric) ..... ≥ 98.5 %  
Identification ..... Positive Sulphate ..... ≤ 140 ppm Ammonium ..... ≤ 200 ppm  
Loss on drying ..... ≤ 0.2 % Heavy metals (Pb) ..... ≤ 20 ppm Residue on ignition ..... ≤ 0.1 %

Code	Size	Packaging	Notes
486953	50 g	Glass bottle	

**Tellurium standard solution**

Tellurio standard soluzione • Tellurium solution standard • Teluro, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group II**Danger**H314  
P264-P280-P305+P351+P338-P337+P313**Tellurium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505887	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505888	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Tellurium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503981	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503985	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503983	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503987	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Tellurium standard solution > RS - Standard solution for AAS****RS**

Code	Size	Packaging	Notes
507762	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507518	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Terbium standard solution**

Terbio standard soluzione • Terbium solution standard • Terbio, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Danger**H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338**Terbium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505882	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505883	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
505885	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Terbium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
503971	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503975	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
503973	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
503977	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Tetrabutylammonium bisulfate**

Tetrabutylammonio bisolfato • Tetrabutylammonium bisulfate • Tetrabutylammonio bisolfato

$C_{16}H_{37}NO_4S$   
 Molecular Weight: 339,53  
 CAS: 32503-27-8  
 EEC-N: 251-068-5

**Warning**

H302-H315-H319-H335  
 P264-P271-P280-P304+P340-  
 P305+P351+P338-P330

**Tetrabutylammonium bisulfate > RS - For ion pair chromatography****RS**

**Absorbance UV curve (10%)**  
 A220nm (1M) ..... ≤ 0.05 AU    A260nm (1M) ..... ≤ 0.02 AU  
 A210nm (1M) ..... ≤ 0.06 AU    A230nm (1M) ..... ≤ 0.03 AU    A500nm (1M) ..... ≤ 0.02 AU

Code	Size	Packaging	Notes
405971	25 g	Plastic bottle	
405972	100 g	Plastic bottle	

**Tetrabutylammonium bisulfate > RPE - For analysis****RPE**

Description ..... White crystals    Assay (acidimetric) ..... ≥ 97.5 %    Tributylamina ..... ≤ 0.5 %  
 Identification ..... Positive    Melting point ..... 168 ± 172 °C    Sulphated ash ..... ≤ 0.5 %

Code	Size	Packaging	Notes
487101	250 g	Plastic bottle	

**Tetrabutylammonium bromide**

Tetrabutylammonio bromuro • Tétrabutylammonium bromure • Tetrabutylammonio bromuro

$(C_4H_9)_4NBr$   
 Molecular Weight: 322,37  
 CAS: 1643-19-2  
 EEC-N: 216-699-2

**Warning**

H302  
 P264-P270-P330-P301+P312a-P501a

**Tetrabutylammonium bromide > RS - For polarography****RS**

Description ..... White crystals    Identification ..... Positive    Melting point ..... 100±104 °C

Code	Size	Packaging	Notes
487051	10 g	Glass bottle	

**Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N)**

Tetrabutylammonio idrossido soluzione 0.1 mol/l (0.1N) • Tétrabutylammonium hydroxyde 0.1 mol/l (0.1N) • Tetrabutylammonio hidróxido solución 0.1 mol/l (0.1N)

$(C_4H_9)_4NOH$   
 Molecular Weight: 259,48  
 CAS: 2052-49-5

**Classification transport**  
 ONU: 1992  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H315-H319-H361d-H371-H336-H373  
 P210-P241-P264-P303+P361+P353-  
 P305+P351+P338-P403+P235

**Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613008300	1 l	Glass bottle	Ref Ph.Eur 3008300

**Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol**

Tetrabutylammonio idrossido 0.1 mol/l (0.1N) in isopropanolo • Tétrabutylammonium hydroxyde 0.1 mol/l (0.1N) dans propanol-2 • Tetrabutylammonio hidróxido 0.1 mol/l (0.1N) en 2-propanol

$(C_4H_9)_4NOH$   
 Molecular Weight: 259,48  
 CAS: 2052-49-5

**Classification transport**  
 ONU: 1992  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H301-H331-H315-H318-H370-H336  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

**Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613008400	1 l	Glass bottle	Ref Ph.Eur 3008400

**Tetrabutylammonium hydroxide 0.1 mol/l (0.1N) in 2-propanol > RPE - For analysis****RPE**

Description ..... Clear colourless liquid Identification ..... Positive Density at 20° C ..... ~ 0.80 Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
E487031	500 ml	Glass bottle	

**Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in methanol / propanol-2**

Tetrabutylammonio idrossido 0.1 mol/l (0.1N) in metanolo/propan-2-olo (50/50) •  
 Tetrabutylammonium hydroxyde 0.1 mol/l (0.1N) dans méthanol / propanol-2 (50/50) •  
 Tetrabutylammonio hidróxido 0.1 mol/l (0.1N) en metanol / propanol-2 (50/50)

(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub>NOH  
 Molecular Weight: 259,48  
 CAS: 2052-49-5

**Classification transport**  
 ONU: 3286  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H331-H315-H318-H370-H336  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

**Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in methanol / propanol-2 > RPE - For analysis****RPE**

Assay (potentiometry) ..... 0.0998 - 0.1002 N

Code	Size	Packaging	Notes
P3840016	1 l	Glass bottle	

**Tetrachloroauric(III) acid ▶ Gold(III) chloride trihydrate****Tetrachloro-1,4-benzoquinone ▶ Chloranil****Tetrachloroethane-d2**

Tetracloroetano-d2 • Tétrachloroéthane-d2 • Tetracloroetano-D2

Synonym:  
 1,1,2,2-Tetrachloroethane-d2  
 1,2-Dideutero-1,1,2,2-tetrachloroethane

C<sub>2</sub>D<sub>2</sub>Cl<sub>4</sub>  
 Molecular Weight: 169,86  
 CAS: 33685-54-0  
 EEC-N: 251-634-1

**Classification transport**  
 ONU: 1702  
 Transport Hazard class: 6.1  
 Packing group II



**Danger**  
 H310-H330-H411  
 P264-P273-P271-P280-P284-P304+P340

**Tetrachloroethane-d2 > RS - For NMR - min 99.5%****RS**

Code	Size	Packaging	Notes
P5435	25 ml	Glass bottle	

**Tetrachloroethylene**

Tetracloroetilene • Tétrachloroéthylène • Tetracloroetileno

Synonym:  
 Perchloroethylene

C<sub>2</sub>Cl<sub>4</sub>  
 Molecular Weight: 165,83  
 CAS: 127-18-4  
 EEC-N: 204-825-9

**Classification transport**  
 ONU: 1897  
 Transport Hazard class: 6.1  
 Packing group III



**Warning**  
 H315-H319-H317-H351-H336-H411  
 P264-P273-P271-P304+P340-P305+P351+P338-  
 P308+P313

**Tetrachloroethylene > RS - SPECTROSOL - For optical spectroscopy****RS**

Clear, colourless liq. appearance ..... Conform	Water content (K.F.) ..... ≤ 100 mg/Kg	Fluorescence (quinine) at 365 nm .. ≤ 2 ppb	UV transmittance at 360 nm ..... ≥ 88 %
Identification ..... Conform	Non volatile residue ..... ≤ 10 mg/Kg	UV transmittance at 300 nm ..... ≥ 75 %	UV transmittance at 400 nm ..... ≥ 97 %
Refractive index at 20°C .. 1.5014 - 1.5074	Assay (GC) ..... ≥ 99.9 %	UV transmittance at 310 nm ..... ≥ 83 %	
Density at 20°C ..... 1.618 - 1.628	Free acid ..... ≤ 0.0003 meq/g	UV transmittance at 320 nm ..... ≥ 88 %	
Boiling point ..... 120.3 - 121.8 °C	Free alkali ..... ≤ 0.00006 meq/g	UV transmittance at 340 nm ..... ≥ 88 %	

Code	Size	Packaging	Notes
P0682716	1 l	Glass bottle	
P0682721	2.5 l	Glass bottle	

**Tetrachloroethylene > RPE - For analysis - Stabilized****RPE**

Description .....	Clear colourless liquid	Phosgene .....	Conform	Water (K.F.) .....	≤ 200 ppm	Chloride .....	≤ 1 ppm
Identification .....	Positive	Ready carbonizable substances .....	Conform	Residue on evaporation .....	≤ 10 ppm	Assay (GLC) .....	≥ 99.5 %
Alcohol miscibility .....	Complete	Density at 20° C .....	1.618 ÷ 1.628	Acidity (HCl) .....	≤ 5 ppm		
Benzene miscibility .....	Complete	Refractive index at 20°C .....	1.5014 ÷ 1.5074	Alcalinity (NH <sub>3</sub> ) .....	≤ 0.5 ppm		
Diethyl ether miscib. ....	Complete	Boiling point .....	120.3 ÷ 121.8 °C	Free chlorine .....	≤ 0.1 ppm		

Code	Size	Packaging	Notes
449671	1 l	Glass bottle	
449672	2.5 l	Glass bottle	
449673	35 kg	Drum	

**Tetrachloroethylene > RE - Pure - Stabilized****RE**

Refractive index at 20°C .....	1.503 - 1.507	Identification .....	Positive	Colour .....	≤ 10 Hazen	Assay (GLC) .....	≥ 98 %
Description .....	Clear colourless liquid	Non volatile residue .....	≤ 50 mg/Kg	Residue on evaporation .....	≤ 20 ppm		
Water content (K.F.) .....	≤ 100 mg/Kg	Density at 20° C .....	1.618 ÷ 1.628	Assay (GC) .....	≥ 99 %		

Code	Size	Packaging	Notes
343001	1 l	Glass bottle	
P0680228	5 l	Plastic tank	
343003	40 kg	Metal drum	

**Tetraethylammonium bromide**

Tetraetilammonio bromuro • Tétráéthylammonium bromure • Tetraetilamónio bromuro

Synonym:  
TEA Bromide

(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>NBr  
 Molecular Weight: 210,17  
 CAS: 71-91-0  
 EEC-N: 200-769-4

**Tetraethylammonium bromide > RS - For polarography****RS**

Description .....	White powder	Identification .....	Positive
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Code	Size	Packaging	Notes
487152	25 g	Glass bottle	

**Tetrahydrofuran**

Tetraidrofurano • Tétrahydrofuranne • Tetrahidrofurano

OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>  
 Molecular Weight: 72,11  
 CAS: 109-99-9  
 EEC-N: 203-726-8

**Classification transport**  
 ONU: 2056  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H319-H351-H335-HEU019  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P305+P351+P338-P403+P235

**Tetrahydrofuran > RS - For HPLC - Isocratic grade - Not stabilized****RS**

Description .....	Clear colourless liquid	Residue on evaporation .....	≤ 2 ppm	<b>U.V. Transmittance</b>	At 275 nm .....	≥ 90 %	
Identification .....	Positive	Peroxide .....	≤ 200 ppm	at 230 nm .....	≥ 15 %	at 280 nm .....	≥ 92 %
Density at 20° C .....	0.885 ÷ 0.893	Acidity .....	≤ 0.00035 meq/g	at 240 nm .....	≥ 40 %	At 310 nm .....	≥ 98 %
Refractive index at 20°C .....	1.4040 ÷ 1.4100	Alcalinity .....	≤ 0.0006 meq/g	at 250 nm .....	≥ 55 %	At 315 nm .....	≥ 99 %
Boiling point .....	64.0 ÷ 65.0 °C	Assay (GLC) .....	≥ 99.9 %	at 260 nm .....	≥ 70 %		
Water (K.F.) .....	≤ 200 ppm			at 270 nm .....	≥ 85 %		

Code	Size	Packaging	Notes
412451000	1 l	Glass bottle	
412453000	1 l	Glass bottle PVC coated	
412452000	2.5 l	Glass bottle	

**Filtered through 0.2 µm membrane**

**Tetrahydrofuran > RS - For HPLC - Isocratic grade - Stabilized with BHT****RS**

Clear, colourless liq. appearance ..... Conform	Water content (K.F.) ..... ≤ 200 mg/Kg	UV transmittance at 250 nm ..... ≥ 40 %	Free acid (as CH <sub>3</sub> COOH) ..... ≤ 20 mg/Kg
Identification ..... Conform	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) ..... ≤ 50 mg/Kg	UV transmittance at 280 nm ..... ≥ 30 %	Assay (GC) ..... ≥ 99.8 %
Colour ..... ≤ 10 Apha	Stabilizer (ionol) ..... 40 - 60 mg/Kg	UV transmittance at 300 nm ..... ≥ 90 %	Non volatile residue (without stab.) ≤ 5 mg/Kg
Refractive index at 20°C ..... 1.405 - 1.409	UV transmittance at 240 nm ..... ≥ 10 %	UV transmittance at 320 nm ..... ≥ 95 %	

Code	Size	Packaging	Notes
412471	1 l	Glass bottle	
412472	2.5 l	Glass bottle	

**Tetrahydrofuran > RS - For preparative HPLC - Stabilized with BHT****RS**

Description ..... Clear colourless liquid	Boiling point ..... 64.0 ÷ 65.0 ° C	Peroxide ..... ≤ 50 ppm	Stabilizer (ionol) ..... 40 ÷ 60 ppm
Identification ..... Positive	Water (K.F.) ..... ≤ 200 ppm	Assay (GLC) ..... ≥ 99.8 %	
Density at 20° C ..... 0.885 ÷ 0.893	Residue on evaporation ..... ≤ 5 ppm	<b>U.V. Transmittance</b>	
Refractive index at 20°C ..... 1.4040 ÷ 1.4100	Alcalinity ..... ≤ 0.0002 meq/g	at 240 nm ..... ≥ 30 %	

Code	Size	Packaging	Notes
487352	2.5 l	Glass bottle	

**Tetrahydrofuran > RS - SPECTROSOL - For optical spectroscopy - Not stabilized - Reag.Ph.Eur.****RS**

Description ..... Clear colourless liquid	Boiling point ..... 64.0 ÷ 65.0 ° C	Peroxides (H <sub>2</sub> O <sub>2</sub> ) ..... ≤ 300 ppm	at 300 nm ..... ≥ 95 %
Colour (APHA) ..... ≤ 10	Water (K.F.) ..... ≤ 200 ppm	Assay (GLC) ..... ≥ 99.9 %	at 320 nm ..... ≥ 98 %
Identification ..... Positive	Residue on evaporation ..... ≤ 5 ppm	<b>U.V. Transmittance</b>	UV Absorbance at 255 nm ..... ≤ 0.70 AU
Density at 20° C ..... 0.885 ÷ 0.893	Acidity ..... ≤ 0.0005 meq/g	at 240 nm ..... ≥ 30 %	UV Absorbance at 270 nm ..... ≤ 0.10 AU
Refractive index at 20°C ..... 1.4040 ÷ 1.4100	Alcalinity ..... ≤ 0.0002 meq/g	at 250 nm ..... ≥ 50 %	UV Absorbance at 310 nm ..... ≤ 0.01 AU

Code	Size	Packaging	Notes
487345	1 l	Glass bottle	
487346	2.5 l	Glass bottle	

**Tetrahydrofuran > RS - Anhydrous - For analysis - Stabilized with BHT****RS**

Refractive index at 20°C ..... 1.405 - 1.409	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) ..... ≤ 20 mg/Kg	Free acid (as CH <sub>3</sub> COOH) ..... ≤ 20 mg/Kg	Density d <sub>20</sub> /4 ..... 0.884 - 0.894
Water content (K.F.) ..... ≤ 100 mg/Kg	Stabilizer (ionol) ..... 200 - 400 mg/Kg	Clear, colourless liq. appearance ..... Conform	Non volatile residue (without stab.) ≤ 10 mg/Kg
Colour ..... ≤ 10 Hazen	Assay (GC) ..... ≥ 99.9 %	Identification (IR) ..... Conform	

Code	Size	Packaging	Notes
P0701010	200 ml	Bottle with septum	
P07010T10	200 ml	Bottle with septum	On molecular sieves 4A
P0701016	1 l	Glass bottle	
P07010T16	1 l	Glass bottle	On molecular sieves 4A
P0701021	2.5 l	Glass bottle	

**Tetrahydrofuran > RPE - For analysis - ACS - Reag.Ph.Eur. - Reag.USP - Stabilized with BHT****RPE**

Description ..... Clear colourless liquid	Residue on evaporation ..... ≤ 300 ppm	Cd ..... ≤ 0.05 ppm	Ni ..... ≤ 0.02 ppm
Colour (APHA) ..... ≤ 10	Acidity (acetic acid) ..... ≤ 20 ppm	Co ..... ≤ 0.02 ppm	Pb ..... ≤ 0.1 ppm
Identification (I.R.) ..... Conform	Alcalinity (NH <sub>3</sub> ) ..... ≤ 7 ppm	Cr ..... ≤ 0.02 ppm	Sn ..... ≤ 0.1 ppm
Density at 20° C ..... 0.885 ÷ 0.893	Peroxides (H <sub>2</sub> O <sub>2</sub> ) ..... ≤ 20 ppm	Cu ..... ≤ 0.02 ppm	Zn ..... ≤ 0.1 ppm
Refractive index at 20°C ..... 1.4040 ÷ 1.4100	Al ..... ≤ 0.5 ppm	Fe ..... ≤ 0.1 ppm	Assay (GLC) ..... ≥ 99.9 %
Boiling point ..... 64.0 ÷ 65.0 ° C	Ba ..... ≤ 0.1 ppm	Mg ..... ≤ 0.1 ppm	Stabilized with BHT ..... 200 ÷ 350 ppm
Water (K.F.) ..... ≤ 150 ppm	Ca ..... ≤ 0.5 ppm	Mn ..... ≤ 0.02 ppm	Residue on evaporation (without stab.) ≤ 10 ppm

Code	Size	Packaging	Notes
487308	1 l	Glass bottle	
487303	2.5 l	Glass bottle	
487305	5 l	Plastic tank	
487307	5 l	Aluminium can	
487301	23 kg	Metal drum	
487309	200 l	Metal drum	



**Tetrahydrofuran > RE - Pure - Stabilized with BHT**

RE

Description ..... Clear colourless liquid      Refractive index at 20°C. 1.4020 ÷ 1.4120      Acidity ..... ≤50 ppm      Residue on evaporation (without stab). ≤ 50 ppm  
 Identification ..... Positive      Boiling point..... 63.8 ÷ 65.3 ° C      Peroxides (H2O2) ..... ≤100 ppm  
 Density at 20° C ..... 0.884 ÷ 0.894      Water (K.F.) ..... ≤200 ppm      Assay (GLC) ..... ≥99.5 %      Stabilized with BHT ..... 200 ÷ 350 ppm

Code	Size	Packaging	Notes
382981	1 l	Glass bottle	
382985	2.5 l	Glass bottle	
382982	5 l	Aluminium can	
528481	5 l	Plastic tank	
382986	23 kg	Metal drum	
382983	200 l	Metal drum	

**Tetrahydrofuran-d8**

Tetraidrofurano-d8 • Tétrahydrofuranne-d8 • Tetrahidrofurano-d8

Synonym:

Octadeuterotetrahydrofuran

C<sub>4</sub>D<sub>8</sub>O

Molecular Weight: 80,16

CAS: 1693-74-9

EEC-N: 216-898-4

**Classification transport**

ONU: 2056

Transport Hazard class: 3

Packing group II

**Danger**

H225-H315-H319-H351-H335-HEU019

P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

**Tetrahydrofuran-d8 > RS - For NMR - min 99.5%**

RS

Code	Size	Packaging	Notes
P5380	2 x 0.6 ml	Glass ampoule	
P5385	25 ml	Glass bottle	

**1,2,3,4-Tetrahydronaphthalene**

1,2,3,4-Tetraidronaftalene • 1,2,3,4-Tétrahydronaphthalène • 1,2,3,4-Tetrahidronaftaleno

C<sub>8</sub>H<sub>4</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>

Molecular Weight: 132,21

CAS: 119-64-2

EEC-N: 204-340-2

**Classification transport**

ONU: 3082

Transport Hazard class: 9

Packing group III

**Warning**

H315-H319-H411-HEU019

P264-P273-P280g-P305+P351+P338-P332+P313-P337+P313

**1,2,3,4-Tetrahydronaphthalene > RE - Pure**

RE

Description ..... Clear colourless liquid      Density at 20° C ..... 0.968 ÷ 0.978      Boiling point..... 206.3 ÷ 208.3 ° C      Assay (GLC) ..... ≥97 %  
 Identification ..... Positive      Refractive index at 20°C. 1.5411 ÷ 1.5511      Residue on ignition ..... ≤100 ppm

Code	Size	Packaging	Notes
383002	1 l	Glass bottle	

**Tetramethylammonium hydroxide 10%**

Tetrametilammonio idrossido 10% • Tétraméthylammonium hydroxyde 10% • Tetrametilamonio hidróxido 10%

C<sub>4</sub>H<sub>13</sub>NO

Molecular Weight: 91,15

CAS: 75-59-2

**Classification transport**

ONU: 2733

Transport Hazard class: 3

Packing group II

**Danger**

H225-H310-H314

P210-P241-P264-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

**Tetramethylammonium hydroxide 10% > RS - For polarography and steroids detection**

RS

Description ..... Clear colourless liquid      Identification ..... Positive      Assay (acidimetric) ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
487491	100 ml	Glass bottle	
487492	250 ml	Glass bottle	



### n,n,n',n'-Tetramethyl-p-phenylenediamine dihydrochloride

N,N,N',N'-Tetrametil-p-fenilendiammina bicloridrato • n,n,n',n'-Tétraméthyl-p-phénylènediamine dichlorhydraté • n,n,n',n'-Tetrametil -p-fenilendiamina diclorhidrato

Synonym:  
TMPPD  
Wurster's reagent

$C_8H_{14}N(CH_2)_2 \cdot 2HCl$   
Molecular Weight: 237,17  
CAS: 637-01-4  
EEC-N: 211-274-8



#### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### n,n,n',n'-Tetramethyl-p-phenylenediamine dihydrochloride > RPE - For analysis

**RPE**

Description . White-hazel crystalline powder Identification ..... Positive Melting point..... 219 ÷ 222 °C Assay (non-aqueous medium) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
487601	5 g	Glass bottle	



### Tetramethylsilane

Tetrametilsilano • Tétraméthylsilane • Tetrametilsilano

Synonym:  
TMS

$(CH_3)_4Si$   
Molecular Weight: 88,23  
CAS: 75-76-3  
EEC-N: 200-899-1

#### Classification transport

ONU: 2749  
Transport Hazard class: 3  
Packing group I



#### Danger

H224  
P210-P241-P243-P280a-P303+P361+P353-P403+P235

### Tetramethylsilane > RS - For NMR - min 99.8%

**RS**

Code	Size	Packaging	Notes
P5455S	25 ml	Bottle with septum	



### Tetrazolium blue

Blu tetrazolo • Bleu de tétrazolium • Azul de tetrazolio

Synonym:  
BTC  
3,3'-(3,3'-Dimethoxy[1,1'-biphenyl]-4,4'-diyl)-bis(2,5-dihenyl-2H-tetrazolium) dichloride

$C_{40}H_{32}N_8O_2Cl_2$   
Molecular Weight: 727,65  
CAS: 1871-22-3  
EEC-N: 217-488-8

### Tetrazolium blue > RS - For microscopy

**RS**

Description ..... Pale yellow powder Identification ..... Positive Melting point..... ~ 245 °C

Code	Size	Packaging	Notes
429187	1 g	Glass bottle	



### Thallium standard solution

Tallio standard soluzione • Thallium solution standard • Talio, solución patrón

### Thallium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

**RS**

Code	Size	Packaging	Notes
615003000	100 ml	Plastic bottle	A 10 ppm solution Ref Ph.Eur 5003000

### Thallium standard solution > RS - Standard solution for ICP-MS

**RS**

Code	Size	Packaging	Notes
505912	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505915	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505913	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Thallium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504011	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504015	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504013	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504017	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Thiazole Yellow G ▶ Clayton's yellow



## Thioacetamide

Tioacetammide • Thioacétamide • Tioacetamida

Synonym:

Ethanethioamide



Molecular Weight: 75,13

CAS: 62-55-5

EEC-N: 200-541-4



## Danger

H302-H315-H319-H350-H412-HA26

P264-P273-P305+P351+P338-P308+P313-P330-P332+P313

## Thioacetamide &gt; RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... White crystalline powder      Melting point .....  $111 \pm 114^\circ\text{C}$       Assay (argentimetric) .....  $\geq 99.0\%$   
 Identification ..... Positive      Residue on ignition .....  $\leq 500\text{ ppm}$       Appearance of solution 2% ..... Conform

Code	Size	Packaging	Notes
487803	50 g	Glass bottle	
487807	500 g	Glass bottle	



## Thioacetamide solution 40 g/l

Tioacetammide soluzione 40 g/l • Thioacétamide solution 40 g/l • Tioacetamida solución 40 g/l

Synonym:

Ethanethioamide



Molecular Weight: 75,13

CAS: 62-55-5



## Danger

H350-HA26

P280-P201-P202-P308+P313-P405-P501a

## Thioacetamide solution 40 g/l &gt; RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611089603	100 ml	Plastic bottle	Ref Ph.Eur 1089602
611089602	1 l	Plastic bottle	Ref Ph.Eur 1089602



## 2-Thiobarbituric acid

Acido 2-tiobarbiturico • Acide 2-thiobarbiturique • Acido 2-tiobarbitúrico

Synonym:

4,6-Dihydroxy-2-mercaptopyrimidine

4,6-Dihydroxypyrimidine-2-thiol



Molecular Weight: 144,15

CAS: 504-17-6

EEC-N: 207-985-8

## 2-Thiobarbituric acid &gt; RPE - For analysis

RPE

Description ..... Yellowish crystalline powder      Loss on drying .....  $\leq 2\%$       Assay (acidimetric) .....  $\geq 97.5\%$  (s.s.)  
 Identification ..... Positive      Sulphated ash .....  $\leq 0.5\%$

Code	Size	Packaging	Notes
411271	5 g	Glass bottle	
411272	25 g	Glass bottle	

## Thiocarbamide ▶ Thiourea

## Thioethylene glycol ▶ 2-Mercaptoethanol



## Thioglycolic acid 80%

Acido tioglicolico 80% • Acide thioglycolique 80% • Acido tioglicólico 80%

Synonym:  
Mercaptoacetic acid

CH<sub>2</sub>SHCOOH  
Molecular Weight: 92,17  
CAS: 68-11-1

**Classification transport**  
ONU: 1940  
Transport Hazard class: 8  
Packing group II



**Danger**  
H301-H311-H331-H314-H318  
P264-P271-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Thioglycolic acid 80% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Density at 20° C ..... 1.249 ÷ 1.269    Iron sensitivity ..... ≥0.1 µg/ml    Fe ..... ≤50 ppm  
Identification ..... Positive    Heavy metals (Pb) ..... ≤10 ppm    Sulphate ..... ≤50 ppm    Assay (oxidimetric) ..... ≥80 %

Code	Size	Packaging	Notes
411385	500 ml	Glass bottle	



## Thiourea

Tiourea • Thiourée • Tiourea

Synonym:  
Thiocarbamide  
Sulfourea

NH<sub>2</sub>CSNH<sub>2</sub>  
Molecular Weight: 76,12  
CAS: 62-56-6  
EEC-N: 200-543-5

**Classification transport**  
ONU: 2811  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H302-H351-H361d-H411  
P264-P273-P280-P308+P313-P330-P301+P312a

### Thiourea > RPE - For analysis - ACS

**RPE**

Description ..... White crystalline powder    Water solubility ..... Conform    Loss on drying ..... ≤0.5 %    Bismuth sensitivity ..... Conform  
Identification ..... Positive    Melting point ..... 174 ÷ 177 °C    Residue on ignition ..... ≤0.1 %    Assay (argentimetric) ..... ≥99.0 % s.s.

Code	Size	Packaging	Notes
488104	100 g	Plastic bottle	
488105	250 g	Plastic bottle	
488107	1 kg	Plastic bottle	
488101	50 kg	Fibre drum	

### Thiourea > RE - Pure

**RE**

Description ..... White crystalline powder    Melting point ..... 173 ÷ 178 °C    Heavy metals (Pb) ..... ≤10 ppm    Fe ..... ≤10 ppm  
Identification ..... Positive    Loss on drying ..... ≤2 %    Residue on ignition ..... ≤0.1 %    Assay (argentimetric) ..... ≥98 %

Code	Size	Packaging	Notes
385407	1 kg	Plastic bottle	
385409	5 kg	Plastic jar	
385403	25 kg	Plastic bucket	



## Thorin

Torin • Thorin • Torina

C<sub>16</sub>H<sub>11</sub>AsN<sub>2</sub>Na<sub>2</sub>O<sub>10</sub>S<sub>2</sub>  
Molecular Weight: 576,3  
CAS: 132-33-2  
EEC-N: 205-058-2

**Classification transport**  
ONU: 3465  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H331-H410  
P264-P273-P271-P304+P340-P301+P310a-P330

### Thorin > RPE - For analysis

**RPE**

Description ..... Red powder    Identification ..... Positive

Code	Size	Packaging	Notes
402392	1 g	Glass bottle	

**Complexometric indicator**

**Thorium standard solution**

Torio standard soluzione • Thorium solution standard • Torio, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Danger**H314-H319  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Thorium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504281	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504283	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Thulium standard solution**

Tulio standard soluzione • Thullium solution standard • Tulio, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Thulium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505917	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505918	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Thulium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507763	100 ml	Plastic bottle	conc. 1000 ppm Matrix : Nitric acid
507519	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Thymol**

Timolo • Thymol • Timol

Synonym:  
2-Isopropyl-5-methylphenolC<sub>10</sub>H<sub>14</sub>O  
Molecular Weight: 150,22  
CAS: 89-83-8  
EEC-N: 201-944-8**Classification transport**ONU: 3077  
Transport Hazard class: 9  
Packing group III**Danger**H302-H314-H411  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Thymol > ERBApharm - According to pharmacopoeia : BP-DAB-NF-Ph.Eur.-FU**

ERBApharm

Description .....	Colourless crystals	Acidity .....	Conform Ph.Eur.	Melting point.....	48 ÷ 51 °C
Identification .....	Positive	Related compounds.....	Conform Ph.Eur.	Not volatile residue.....	≤500 ppm
Appearance of solution .....	Conform Ph.Eur.	Organic volatile impurities.....	Conform NF	Assay .....	99.0 ÷ 101.0 %

Code	Size	Packaging	Notes
384205	250 g	Plastic bottle	
384201	1 kg	Plastic bottle	
384202	2.5 kg	Plastic jar	



## Thymol blue

Blu timolo • Bleu de thymol • Azul de timol

Synonym:  
Thymolsulfonphthalein

$C_{27}H_{30}O_5S$   
Molecular Weight: 466,59  
CAS: 76-61-9  
EEC-N: 200-973-3

### Thymol blue > RPE - For analysis

RPE

Description ..... Polvere verde bruna      Appearance of solution ..... Conform      Colour change.....rosso-giallo  
Identification ..... Positive      pH range ..... 1.2 ÷ 2.8

Code	Size	Packaging	Notes
429228	5 g	Glass bottle	
429222	25 g	Glass bottle	
429223	50 g	Plastic bottle	



## Thymol blue 0.4% in ethanol

Blu timolo soluzione 0,4% in alcole etilico • Bleu de thymol solution 0.4% dans l'éthanol • Azul de timol solucion 0.4% en alcohol etilico

Synonym:  
Thymolsulfonphthalein

$C_{27}H_{30}O_5S$   
Molecular Weight: 466,59  
CAS: 76-61-9

**Classification transport**  
ONU: 1170  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Thymol blue 0.4% in ethanol > RPE - For analysis

RPE

Description ..... Blue-brown liquid      Sensitivity(pH 1.2-2.8) ..... Conform      Colour change..... red-yellow  
Identification ..... Positive      Sensitivity(pH 8.2-9.6) ..... Conform

Code	Size	Packaging	Notes
E429235	250 ml	Glass bottle	

**Acid-basis indicator (pH 1.2÷2,8-pH 8.2÷9,6)**



## Thymol blue solution

Blu timolo soluzione • Bleu de thymol solution • Azul de timol solución

**Classification transport**  
ONU: 2924  
Transport Hazard class: 3  
Packing group III



**Warning**  
H226-H319  
P210-P241-P264-P303+P361+P353-  
P305+P351+P338-P403+P235

### Thymol blue solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611090601	100 ml	Plastic bottle	Ref Ph.Eur 1090601

**Colour change: pH 1.2 (red) to pH 2.8 (yellow); pH 8.0 (olive-green) to pH 9.6 (blue)**



## Thymol blue indicator

Blu timolo indicatore • Indicateur bleu de thymol • Indicador azul de timol

### Thymol blue indicator > RS - For analysis

RS

pH..... 6.8 - 7 unite pH      Temperature of measurement ..... 15 - 25 °C

Code	Size	Packaging	Notes
PS0270/15	1 l	Plastic bottle	



## Thymol blue TA indicator

Blu timolo TA indicatore • Indicateur TA au bleu de thymol • TA indicador azul de timol

### Thymol blue TA indicator > RS - For analysis

RS

pH ..... 6.5 - 7.5 unite pH    Temperature of measurement ..... 15 - 25 °C    Coca-cola colour ..... Conform

Code	Size	Packaging	Notes
PS0187/15	1 l	Plastic bottle	
PS0187/16	1 l	Glass bottle	



## Thymolphthalein

Timolftaleina • Thymolphthaléine • Timolftaleina

Synonym:

5',5''-Diisopropyl-2',2''-dimethylphenolphthalein

$C_{28}H_{30}O_4$

Molecular Weight: 430,55

CAS: 125-20-2

EEC-N: 204-729-7

### Thymolphthalein > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder    Identification ..... Positive    Colour change ..... incolore ÷ blu    pH range ..... 9.3 ÷ 10.5

Code	Size	Packaging	Notes
487728	5 g	Glass bottle	
487729	25 g	Glass bottle	



## Thymolphthalein 0.1% hydroalcoholic solution

Timolftaleina 0.1% soluzione idroalcolica • Thymolphthaléine 0.1% solution hydroalcoolique • Timolftaleina 0.1% solución hidroalcohólica

Synonym:

5',5''-Diisopropyl-2',2''-dimethylphenolphthalein

$C_{28}H_{30}O_4$

Molecular Weight: 430,55

CAS: 125-20-2

### Classification transport

ONU: 1170

Transport Hazard class: 3

Packing group II



### Danger

H225-H319

P210-P241-P264-P303+P361+P353-

P305+P351+P338-P403+P235

### Thymolphthalein 0.1% hydroalcoholic solution > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Density at 20° C ..... 0.877 ÷ 0.883    pH range ..... 9.3 - 10.5  
 Identification ..... Positive    Colour change ..... incolore blu

Code	Size	Packaging	Notes
E487755	250 ml	Glass bottle	

### Michaelis indicator series



## Thymolphthalein solution 0.1% in ethanol

Timolftaleina soluzione 0.1% in etanolo • Thymolphthaléine solution 0.1% dans l'éthanol • Timolftaleina solución 0.1% en etanol

Synonym:

5',5''-Diisopropyl-2',2''-dimethylphenolphthalein

$C_{28}H_{30}O_4$

Molecular Weight: 430,55

CAS: 125-20-2

### Classification transport

ONU: 1170

Transport Hazard class: 3

Packing group II



### Danger

H225-H319

P210-P241-P264-P303+P361+P353-

P305+P351+P338-P403+P235

### Thymolphthalein solution 0.1% in ethanol > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611090701	100 ml	Plastic bottle	Ref Ph.Eur 1090701

Colour change: pH 9.3 (colourless) to pH 10.5 (blue)



## Tin standard solution

Stagno standard soluzione • Etain solution standard • Estaño, solución patrón

**Classification transport** HEU210  
 ONU: 3264  
 Transport Hazard class: 8  
 Packing group III

### Tin standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

RS

Code	Size	Packaging	Notes
615003101	100 ml	Plastic bottle	A 0.1 ppm solution : to dilute according to Ref Ph.Eur 5003101
615003109	100 ml	Plastic bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003100

### Tin standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505862	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505865	100 ml	Plastic bottle	conc. 100 ppm Matrix : Hydrofluoric acid and nitric acid
505863	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Tin standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
503941	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503945	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
503943	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503947	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Tin standard solution > RS - Standard solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
E497655	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
503949	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid
507492	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497651	500 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

### Tin standard solution > RS - NORMEX - Concentrated solution for AAS

RS

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
484861		Plastic vial	conc. 1.000 ppm Matrix : Hydrochloric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



**Tin, powder**

Stagno, polvere • Etain, poudre • Estaño, polvo

Sn  
 Molecular Weight: 118,69  
 CAS: 7440-31-5  
 EEC-N: 231-141-8

**Tin, powder > RPE - For analysis****RPE**

Description ..... Grey powder Identification ..... Positive Assay (gravimetric) ..... &gt;99 %

Code	Size	Packaging	Notes
484914	100 g	Glass bottle	
484917	1 kg	Plastic bottle	

**Tin (II) chloride dihydrate**

Stagno cloruro oso diidrato • Chlorure stanneux dihydrate • Estaño (II) cloruro dihidrato

 Synonym:  
*Stannous chloride dihydrate*

SnCl<sub>2</sub>·2H<sub>2</sub>O  
 Molecular Weight: 225,63  
 CAS: 10025-69-1  
 EEC-N: 231-868-0

**Warning**

H302-H332-H315  
 P264-P271-P280-P304+P340-P330-P332+P313

**Tin (II) chloride dihydrate > RPE - For analysis - ACS****RPE**

Description ..... White crystals Sulphate ..... Conform K ..... ≤ 50 ppm Assay (oxidimetric) ..... 98.0 ÷ 103.0 %  
 Identification ..... Positive Ca ..... ≤ 50 ppm Na ..... ≤ 100 ppm  
 HCl solubility ..... Conform Fe ..... ≤ 30 ppm Pb ..... ≤ 100 ppm

Code	Size	Packaging	Notes
485004	100 g	Plastic bottle	
485005	250 g	Plastic bottle	
485007	1 kg	Plastic bottle	
485002	5 kg	Plastic jar	

**Tin (II) chloride dihydrate > RE - Pure****RE**

Description ..... White crystals Identification ..... Positive Assay (oxidimetric) ..... &gt;97.0 %

Code	Size	Packaging	Notes
379406	500 g	Plastic bottle	
379407	5 kg	Plastic jar	
379403	25 kg	Drum	

**Tin (II) chloride solution**

Stagno cloruro oso soluzione • Etain (II) chlorure solution • Estaño (II) cloruro solución

 Synonym:  
*Stannous chloride*

SnCl<sub>2</sub>  
 Molecular Weight: 189,62  
 CAS: 7772-99-8

**Warning**

H315  
 P264-P280-P332+P313-P362-P302+P352a

**Tin (II) chloride solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611085001	100 ml	Glass bottle	Ref Ph.Eur 1085001



## Tin (II) chloride solution 10%

Stagno cloruro oso soluzione 10% • Etain (II) chlorure solution 10% • Estaño (II) cloruro solución 10%

Synonym:  
Stannous chloride

SnCl<sub>2</sub>  
Molecular Weight: 189,62  
CAS: 7772-99-8



**Warning**  
H315  
P264-P280-P332+P313-P362-P302+P352a

### Tin (II) chloride solution 10% > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Identification ..... Positive    Density at 20° C ..... 1.075 ÷ 1.085    Assay ..... 9.5 ÷ 10.5 %

Code	Size	Packaging	Notes
E485041	1 l	Bottle	



## Tin (IV) chloride pentahydrate

Stagno cloruro ico pentaidrato • Etain (IV) chlorure pentahydrate • Estaño (IV) cloruro pentahidratado

Synonym:  
Tin tetrachloride

SnCl<sub>4</sub>·5H<sub>2</sub>O  
Molecular Weight: 350,58  
CAS: 10026-06-9  
EEC-N: 231-588-8

**Classification transport**  
ONU: 2440  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314-H412  
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Tin (IV) chloride pentahydrate > RPE - For analysis

**RPE**

Description ..... White irregular pieces    Water-insoluble matter ..... ≤100 ppm    Sulphate ..... ≤10 ppm    Assay (gravimetric) ..... ≥99 %  
Identification ..... Positive    Nitrate ..... ≤20 ppm    As ..... ≤30 ppm  
Other heavy metals ..... ≤100 ppm    Substances not ppt. H<sub>2</sub>S ..... ≤500 ppm    Fe ..... ≤10 ppm  
Free chlorine ..... ≤5 ppm    Stannous salts ..... ≤80 ppm    Sb ..... ≤50 ppm

Code	Size	Packaging	Notes
485074	100 g	Glass bottle	
485076	500 g	Plastic bottle	



## Tin (II) sulfate

Stagno solfato oso • Etain (II) sulfate • Estaño (II) sulfato

Synonym:  
Stannous sulfate

SnSO<sub>4</sub>  
Molecular Weight: 214,75  
CAS: 7488-55-3  
EEC-N: 231-302-2

### Tin (II) sulfate > RE - Pure

**RE**

Description ..... Yellowish crystalline powder    Co ..... ≤50 ppm    Fe ..... ≤100 ppm    Pb ..... ≤200 ppm  
Identification ..... Positive    Cu ..... ≤20 ppm    Ni ..... ≤20 ppm    Assay (oxidimetric) ..... ≥95 %

Code	Size	Packaging	Notes
379601	1 kg	Plastic bottle	



## Tiron

Tiron • Tiron • Tirón

Synonym:  
4,5-Dihydroxy-1,3-benzenedisulfonic acid disodium salt monohydrate

C<sub>8</sub>H<sub>4</sub>O<sub>8</sub>S<sub>2</sub>Na<sub>2</sub>·H<sub>2</sub>O  
Molecular Weight: 332,22  
CAS: 149-45-1  
EEC-N: 205-741-5



**Warning**  
H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Tiron > RPE - For analysis

**RPE**

Description ..... Whitish powder    Identification ..... Positive    Loss on drying ..... 4 ÷ 6 %

Code	Size	Packaging	Notes
488131	10 g	Glass bottle	
488132	25 g	Glass bottle	

**Complexometric indicator**

**Tisab**

Tisab • Tisab • Tisab

**Danger**

H318

P280-P305+P351+P338-P310a

**Tisab > RS - For analysis**

RS

pH.....4.7 - 4.9 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0363/21	2.5 l	Glass bottle	

**Tisab > RS - For fluorides analysis**

RS

pH.....5.00 - 6.00 unité pH    Temperature of measurement ..... 19 - 21 °C

Code	Size	Packaging	Notes
PS0809/22	5 l	Plastic tank	

**Tisab III solution**

Tisab III soluzione • Tisab III solution • Tisab III solución

**Danger**

H318

P280-P305+P351+P338-P310a

**Tisab III solution > RS - For fluorides analysis**

RS

Description ..... Clear colourless liquid    Identification ..... Positive    pH at 20° C ..... 5.0 ÷ 5.5

Code	Size	Packaging	Notes
488162	500 ml	Plastic bottle	

**Titanium standard solution**

Titanio standard soluzione • Titane solution standard • Titanio, solución patrón

**Titanium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615003200	1 l	Plastic bottle	A 100 ppm solution Ref Ph.Eur 5003200

**Titanium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505907	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505908	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid
505909	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrofluoric acid and nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Titanium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504001	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504005	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504003	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504007	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Titanium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507764	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507520	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Titanium dioxide

Titanio biossido • Titane dioxyde • Titanio dióxido

Synonym:  
Titanium(IV) oxide  
Titania

TiO<sub>2</sub>  
Molecular Weight: 79,9  
CAS: 13463-67-7  
EEC-N: 236-675-5

## Titanium dioxide &gt; RPE - For analysis

RPE

Description	White powder	Phosphate	≤0.1 %	Water solubility	≤0.4 %	Zn	≤50 ppm
Identification	Positive	H2SO4-insoluble matter	≤0.1 %	As	≤2 ppm	Assay (oxidimetric)	≥98.5 %
Loss on drying	≤0.5 %	Heavy metals (Pb)	≤10 ppm	Cu	≤5 ppm		
Loss on ignition	≤1.0 %	Sulphate	≤0.1 %	Fe	≤50 ppm		
Chloride	≤200 ppm	Solubility in dil. HCl	≤0.5 %	Pb	≤10 ppm		

Code	Size	Packaging	Notes
488256	100 g	Plastic bottle	
488257	1 kg	Plastic bottle	
488251	10 kg	Drum	

## Titanium dioxide &gt; ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-BP

ERBApharm

Description	White powder	Barium	Conform Ph.Eur.	Loss on ignition	≤0.5 %	Fe	≤200 ppm
Identification	Positive	Water-soluble subst.	≤0.25 %	Heavy metals (Pb)	≤20 ppm	Assay (oxidimetric)	99.0 ÷ 100.5 %s.s.
Appearance of solution	Conform Ph.Eur.	Acid soluble matter	≤0.5 %	Sb	≤100 ppm		
Acidity or alkalinity	Conform Ph.Eur.	Loss on drying	≤0.5 %	As	≤1 ppm		

Code	Size	Packaging	Notes
385751	1 kg	Plastic bottle	
385752	5 kg	Plastic jar	
385753	25 kg	Plastic bucket	

## Titanium dioxide &gt; RE - Pure

RE

Description	Greyish powder	Loss on drying	≤1 %	Assay (oxidimetric)	≥98 %
Identification	Positive	Solubility in dil. HCl	≤1 %		

Code	Size	Packaging	Notes
385707	1 kg	Plastic bottle	
385709	5 kg	Plastic jar	
385702	25 kg	Plastic bucket	



## Titanium isopropylate

Titanio isopropilato • Titane isopropylate • Titanio tetrapropilato

Synonym:  
Titanium(IV) isopropoxide  
Tetraisopropyl orthotitanate

Ti[OCH(CH<sub>3</sub>)<sub>2</sub>]<sub>4</sub>  
Molecular Weight: 284,26  
CAS: 546-68-9  
EEC-N: 208-909-6

Classification transport  
ONU: 2413  
Transport Hazard class: 3  
Packing group III



## Danger

H226-H331-H319-H336  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

## Titanium isopropylate &gt; RE - Pure

RE

Description	Clear slightly yellow liq.	Density at 20° C	~ 0.965	Assay (gravimetric)	16.6 - 17.3 % Ti
Identification	Positive	Melting point	≥ 15 ° C		

Code	Size	Packaging	Notes
488421	100 ml	Glass bottle	

## Titanium potassium hexafluoride ► Potassium fluorotitanate

**Titanium trichloride-sulfuric acid reagent**

Reattivo titanio tricloruro-acido solforico • Titane trichlorure-acide sulfurique • Titanio tricloruro-ácido sulfúrico

**Classification transport**ONU: 1760  
Transport Hazard class: 8  
Packing group II**Danger**H314-H318  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Titanium trichloride-sulfuric acid reagent > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611091202	100 ml	Glass bottle	Ref Ph.Eur 1091202

**Titration solution**

Soluzione titolante • Solution de titrage dureté de l'eau • Soluzione titolante

**Titration solution > RS - For water hardness determination**

RS

Refractive index at 20°C ..... 1.33 - 1.334

Code	Size	Packaging	Notes
PS0308/15	1 l	Plastic bottle	

**o-Tolidine solution 0.1%**

o-Tolidina soluzione 0.1% • o-Tolidine en solution à 0,1% • o-Tolidina solución 0.1%

Synonym:

3,3'-Dimethylbenzidine

C14H16N2  
Molecular Weight: 212,28  
CAS: 119-93-7**Danger**H290-H350-HA26  
P280-P234-P201-P308+P313-P390-P406**o-Tolidine solution 0.1% > RPE - For analysis**

RPE

Description ..... Clear colourless liquid Identification ..... Positive

Code	Size	Packaging	Notes
488461	1 l	Glass bottle	

**For the determination of Au, Ce, Cl, halogen free, Mn****o-Tolidine solution**

o-Tolidina soluzione • o-Tolidine en solution • o-Tolidina solución

**o-Tolidine solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1**

RS

Code	Size	Packaging	Notes
611123001	500 ml	Glass bottle	Ref Ph.Eur 1123001

**Toluene**

Toluene • Toluène • Tolueno

C6H5CH3  
Molecular Weight: 92,14  
CAS: 108-88-3  
EEC-N: 203-625-9**Classification transport**ONU: 1294  
Transport Hazard class: 3  
Packing group II**Danger**H225-H315-H361d-H336-H373-H304  
P210-P241-P264-P303+P361+P353-P304+P340-  
P403+P235**Toluene > RS - For HPLC - Isocratic Grade**

RS

Description ..... Clear colourless liquid	Acidity or alkalinity ..... ≤0.0015 meq/g	<b>U.V. Transmittance</b>	at 320 nm ..... ≥94 %
Identification ..... Positive	Water (K.F) ..... ≤100 ppm	At 285 nm ..... ≥ 10 %	at 330 nm ..... ≥96 %
Density at 20° C ..... 0.865 ÷ 0.869	Residue on evaporation ..... ≤2 ppm	at 290 nm ..... ≥55 %	at 350 nm ..... ≥99 %
Refractive index at 20°C. 1.4931 ÷ 1.4991	Assay (GLC) ..... ≥99.8 %	at 300 nm ..... ≥80 %	
Boiling point ..... 110.1 ÷ 111.1 ° C		at 310 nm ..... ≥90 %	

Code	Size	Packaging	Notes
412641000	1 l	Glass bottle	
412642000	2.5 l	Glass bottle	

## Toluene > RS - For preparative HPLC

**RS**

Description .....	Clear colourless liquid	Refractive index at 20°C. 1.4931 ÷ 1.4991	Residue on evaporation .....	≤5 ppm	<b>U.V. Transmittance</b>
Identification .....	Positive	Boiling point..... 110.1 ÷ 111.1 °C	Alcalinity .....	≤0.0002 meq/g	at 300 nm .....
Density at 20° C .....	0.865 ÷ 0.869	Water (K.F.) .....	Assay (GLC) .....	≥99.8 %	at 350 nm .....

Code	Size	Packaging	Notes
488531	2.5 l	Glass bottle	

## Toluene > RS - ATRASOL - For analysis of volatile traces

**RS**

Refractive index at 20°C.....	1.494 - 1.498	Free acid (as HCl).....	≤ 10 mg/Kg	GC ( FID ) - NC Atrasol .....	Conform	<b>Retention time trichlorobenzene to mirex</b>
Water content (K.F.) .....	≤ 50 mg/Kg	Non volatile residue.....	≤ 5 mg/Kg	GC-ECD.Individual peak (Lindane) ..	≤ 2 ng/l	GC-FID.Individ. peak (hexadecane) ..
Colour .....	≤ 10 Hazen	Assay (GC) .....	≥ 99.8 %			Retention time range over toluène

Code	Size	Packaging	Notes
P0713216	1 l	Glass bottle	
P0713221	2.5 l	Glass bottle	

## Toluene > RS - PESTIPUR - For pesticide analysis

**RS**

Refractive index at 20°C.....	1.494 - 1.498	Water .....	≤ 100 ppm	<b>Retention time trichlorobenzene to mirex</b>
Description .....	Clear liquid	Acidity (HCl) .....	≤ 10 ppm	GC-NPD.Individual peak (Ethylparathion) .....
Colour .....	≤ 10 hazen	Not volatile residue.....	≤ 5 ppm	Assay (GLC) .....
Identification .....	Positive	GC-ECD.Individual peak (Lindane) .....	≤ 3 ng/l	<b>Retention time Atrazin to Coumaphos</b>

Code	Size	Packaging	Notes
488591	1 l	Glass bottle	
488592	2.5 l	Glass bottle	

## Toluene > RS - SPECTROSOL - For optical spectroscopy

**RS**

Description .....	Clear liquid	Boiling point..... 110.1 ÷ 111.1 ° C	<b>U.V. Transmittance</b>	at 320 nm .....	≥93 %
Colour (APHA) .....	≤10	Acidity or alkalinity.....	≤0.0015 meq/g	at 285 nm .....	≥10 %
Identification .....	Positive	Water (K.F.) .....	≤100 ppm	at 290 nm .....	≥55 %
Density at 20° C .....	0.865 ÷ 0.869	Residue on evaporation .....	≤5 ppm	at 300 nm .....	≥80 %
Refractive index at 20°C. 1.4931 ÷ 1.4991		Assay (GLC) .....	≥99.8 %	at 310 nm .....	≥90 %

Code	Size	Packaging	Notes
488601	1 l	Glass bottle	
488602	2.5 l	Glass bottle	

## Toluene > RS - Anhydrous - For analysis

**RS**

Refractive index at 20°C.....	1.494 - 1.498	Colour .....	≤ 10 Hazen	Benzene .....	≤ 200 mg/Kg
Water content (K.F.) .....	≤ 50 mg/Kg	Assay (GC) .....	≥ 99.8 %	Styrene.....	≤ 10 mg/Kg
Non volatile residue.....	≤ 10 mg/Kg	Free acid (as HCl) .....	≤ 10 mg/Kg	Ethylbenzene + xylene.....	≤ 500 mg/Kg

Code	Size	Packaging	Notes
P0711010	200 ml	Bottle with septum	
P07110T10	200 ml	Bottle with septum	On molecular sieves 4A
P0711016	1 l	Glass bottle	
P0711021	2.5 l	Glass bottle	

**Toluene > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP****RPE**

Description .....	Clear colourless liquid	Acidity (benzoic acid) .....	≤14 ppm	Al .....	≤0.5 ppm	Mg .....	≤0.1 ppm
Identification (I.R.) .....	Positive	Alcalinity (NH <sub>3</sub> ) .....	≤2 ppm	B .....	≤0.01 ppm	Mn .....	≤0.01 ppm
Colour (APHA) .....	≤10	Water (K.F.) .....	≤150 ppm	Ba .....	≤0.1 ppm	Ni .....	≤0.01 ppm
Density at 20° C .....	0.865 ÷ 0.869	Residue on evaporation .....	≤10 ppm	Ca .....	≤0.5 ppm	Pb .....	≤0.01 ppm
Refractive index at 20°C. 1.4931 ÷ 1.4991		Ready carbonizable substances.....	Conform	Cd .....	≤0.01 ppm	Sn .....	≤0.1 ppm
Boiling point .....	110.1 ÷ 111.1 ° C	Benzene .....	≤ 0.02 %	Co .....	≤0.01 ppm	Zn .....	≤0.01 ppm
Alcohol miscibility .....	Complete	Tiophene .....	≤1 ppm	Cr .....	≤0.01 ppm	Styrene.....	≤ 10 ppm
Chloroform miscibility .....	Complete	Total sulphur .....	≤3 ppm	Cu .....	≤0.01 ppm	Ethyl benzene + xylene.....	≤ 500 ppm
Diethyl ether miscib.....	Complete	Assay (GLC) .....	≥99.8 %	Fe .....	≤0.05 ppm		

Code	Size	Packaging	Notes
488551	1 l	Glass bottle	
488555	2.5 l	Glass bottle	
488552	5 l	Aluminium can	
488557	24 kg	Metal drum	
488556	170 kg	Metal drum	

**Toluene > RE - Pure****RE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.491 ÷ 1.501	Water (K.F.) .....	≤300 ppm	Assay (GLC) .....	≥99.5 %
Identification .....	Positive	Boiling point.....	109.9 ÷ 111.4 °C	Benzene .....	≤ 0.02 %	Ethyl benzene + xylene.....	≤ 750 ppm
Density at 20° C .....	0.862 ÷ 0.872	Residue on evaporation .....	≤50 ppm	Total sulphur .....	≤100 ppm		

Code	Size	Packaging	Notes
386002	1 l	Glass bottle	
386001	2.5 l	Glass bottle	
386003	23 kg	Metal drum	
386009	170 kg	Metal drum	

**Toluene > RE - Pure - Low content in benzene****RE**

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.491 ÷ 1.501	Water (K.F.) .....	≤300 ppm	Assay (GLC) .....	≥99.5 %
Identification .....	Positive	Boiling point.....	109.9 ÷ 111.4 °C	Benzene .....	≤ 0.02 %	Ethyl benzene + xylene.....	≤ 750 ppm
Density at 20° C .....	0.862 ÷ 0.872	Residue on evaporation .....	≤50 ppm	Total sulphur .....	≤100 ppm		

Code	Size	Packaging	Notes
528231	5 l	Plastic tank	
528233	25 l	Metal drum	
528232	200 l	Metal drum	

**Toluene in solution in hexane**

Toluene soluzione in esano • Toluène en solution dans l'hexane • Tolueno en solución de hexano

C<sub>8</sub>H<sub>10</sub>CH<sub>3</sub>  
 Molecular Weight: 92.14  
 CAS: 108-88-3

**Classification transport**  
 ONU: 1993  
 Transport Hazard class: 3  
 Packing group II



**Danger**  
 H225-H315-H361f-H336-H373-H411  
 P210-P241-P264-P273-P303+P361+P353-  
 P304+P340-P403+P235

**Toluene in solution in hexane > RS - For analysis according to Ph. Eur.Chapter 2.2.25****RS**

Code	Size	Packaging	Notes
506462	10 ml	Sealed cuvette	
506463	100 ml	Glass bottle	



## Toluene-d8

Toluene-d8 • Toluène-d8 • Tolueno-d8

$C_6D_5CD_3$

Molecular Weight: 100,19

CAS: 2037-26-5

EEC-N: 218-009-5

### Classification transport

ONU: 1294

Transport Hazard class: 3

Packing group II



### Danger

H225-H315-H361d-H336-H373-H304

P210-P241-P264-P303+P361+P353-P304+P340-P403+P235

### Toluene-d8 > RS - For NMR - min 99.5%

RS

Code	Size	Packaging	Notes
P5399A	2 x 0.75 ml	Glass ampoule	
P5393A	5 ml	Glass ampoule	
P5395	25 ml	Glass bottle	



## p-Toluene sulfonamide

p-Toluensulfonammide • p-Toluènesulfonamide • p-Toluenosulfonamida

$CH_3C_6H_4SO_2NH_2$

Molecular Weight: 171,22

CAS: 70-55-3

EEC-N: 200-741-1

### p-Toluene sulfonamide > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Melting point ..... ~ 136 ° C Assay (ex nitrogen) ..... ≥98 %

Code	Size	Packaging	Notes
488661	100 g	Plastic bottle	



## p-Toluenesulfonic acid

Acido p-toluenosulfonico monoidrato • Acide p-toluenesulfonique monohydrate • Acido p-toluenosulfónico

$CH_3C_6H_4SO_3H.H_2O$

Molecular Weight: 190,22

CAS: 6192-52-5

EEC-N: 203-180-0

### Classification transport

ONU: 2585

Transport Hazard class: 8

Packing group III



### Warning

H302-H315-H319-H335

P264-P271-P280-P304+P340-

P305+P351+P338-P330

### p-Toluenesulfonic acid > RPE - For analysis

RPE

Description ..... White crystals Melting point ..... 102 ÷ 105 ° C Acidity(Sulphuric acid) ..... ≤0.3 % Assay (oxidimetric) ..... ≥98.5 %  
Identification ..... Positive Water (K.F) ..... ≤13 % Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
411436	500 g	Plastic bottle	
411432	20 kg	Plastic bucket	



## p-Toluenesulfonic acid sodium salt

Acido p-toluenosulfonico sale sodico • Acide p-toluenesulfonique sel sodique • Acido p-toluenosulfónico sal sódica

Synonym:

*Sodium p-toluenesulfonate*

$CH_3C_6H_4SO_3Na$

Molecular Weight: 194,19

CAS: 657-84-1

EEC-N: 211-522-5



### Warning

H315-H319-H335

P264-P271-P280-P304+P340-P305+P351+P338-

P312a

### p-Toluenesulfonic acid sodium salt > RPE - For analysis

RPE

Description ..... White crystals Identification ..... Positive Assay ..... ≥ 97.5 %

Code	Size	Packaging	Notes
411504	100 g	Glass bottle	





### p-Toluenesulfonylchloride

p-Toluensulfonil cloruro • p-Toluènesulfonyl chlorure • p-Toluenesulfonylcloruro

Synonym:  
Tosyl chloride

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>Cl  
Molecular Weight: 190,64  
CAS: 98-59-9  
EEC-N: 202-684-8

**Classification transport**  
ONU: 3261  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314  
P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

#### p-Toluenesulfonylchloride > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Melting point ..... 69.0 ÷ 71.0 ° C Assay (acidimetric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
488671	100 g	Glass bottle	
488672	1 kg	Plastic bottle	



### p-Toluidine

p-Toluidina • p-Toluidine • p-Toluidina

Synonym:  
4-Aminotoluene  
4-Methylaniline

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>  
Molecular Weight: 107,16  
CAS: 106-49-0  
EEC-N: 203-403-1

**Classification transport**  
ONU: 3451  
Transport Hazard class: 6.1  
Packing group II



**Danger**  
H301-H311-H331-H319-H317-H351-H400  
P264-P273-P271-P304+P340-P305+P351+P338-P301+P310a

#### p-Toluidine > RE - Pure

RE

Description Yellow semitransparent crystals Water (K.F.) ..... ≤0.5 % Total sulphur ..... ≤10 ppm Assay (GLC) ..... 99 ÷ 100 %  
Identification ..... Positive Total chlorine ..... ≤50 ppm o-Toluidine ..... ≤300 ppm  
Hydrocarbons ..... Conform Heavy metals (Pb) ..... ≤5 ppm p-Nitrotoluene ..... ≤10 ppm  
Melting point ..... 42.0 ÷ 45.0 ° C Residue on ignition ..... ≤50 ppm Fe ..... ≤5 ppm

Code	Size	Packaging	Notes
488804	100 g	Glass bottle	



### Toluidine blue

Blu toluidina • Bleu de toluidine • Azul de toluidina

Synonym:  
Basic Blue 17

C<sub>15</sub>H<sub>16</sub>ClN<sub>3</sub>S  
Molecular Weight: 305,83  
CAS: 92-31-9  
EEC-N: 202-146-2

#### Toluidine blue > RS - For microscopy - C.I. 52040

RS

Description ..... Black powder Identification ..... Positive Spettro (UV) ..... Conform

Code	Size	Packaging	Notes
429282	25 g	Glass bottle	

**Dye for cytology-histochemistry**

Tosyl chloride ► p-Toluenesulfonylchloride



### Total-ionic-strength-adjustment buffer

Tampone forza ionica totale • Tampon pour ajustement de la force ionique totale • Tampón fuerza iónica total

#### Total-ionic-strength-adjustment buffer > RS - For analysis according to Ph. Eur. Chap. 4.1.3

RS

Code	Size	Packaging	Notes
614007700	1 l	Plastic bottle	Ref Ph.Eur 4007700
614008800	1 l	Plastic bottle	Total ionic strength adjustment buffer R1 Ref Ph.Eur 4008800



## Triacetin

Triacetina • Triacétine • Triacetina

Synonym:  
Glyceryl triacetate

$C_9H_{14}O_6$   
Molecular Weight: 218,21  
CAS: 102-76-1  
EEC-N: 203-051-9

### Triacetin > RPE - For analysis

RPE

Description ..... Clear colourless liquid    Acidity (acetic acid)..... ≤100 ppm    Assay (GLC) ..... ≥99.0 %  
Identification ..... Positive    Water ..... ≤0.1 %

Code	Size	Packaging	Notes
489152	1 l	Glass bottle	



## Tributylphosphate

Tributilfosfato • Tributylphosphate • Tributilofosfato

Synonym:  
TBP  
TBA

$(C_4H_9O)_3PO$   
Molecular Weight: 266,32  
CAS: 126-73-8  
EEC-N: 204-800-2



### Warning

H302-H315-H351  
P264-P280g-P308+P313-P330-P332+P313-  
P301+P312a

### Tributylphosphate > RPE - For analysis

RPE

Description ..... Clear liquid    Refractive index at 20°C..... 1.4230 ÷ 1.4250    Water (K.F) ..... ≤ 0.2 %  
Identification ..... Positive    Colour (APHA) ..... ≤ 50    Assay (GLC) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
432054	500 ml	Glass bottle	



## Trichloroacetic acid

Acido tricloroacetico • Acide trichloroacétique • Acido tricloroacetico

Synonym:  
TCA

$CCl_3COOH$   
Molecular Weight: 163,39  
CAS: 76-03-9  
EEC-N: 200-927-2

### Classification transport

ONU: 1839  
Transport Hazard class: 8  
Packing group II



### Danger

H314-H410  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Trichloroacetic acid > RPE - For analysis - ACS - Reag. Ph.Eur. - Reag. USP

RPE

Description ..... Colourless crystals    Residue on ignition..... ≤ 0.03 %    Nitrate ..... ≤ 20 ppm    Fe ..... ≤ 10 ppm  
Identification ..... Positive    Chloride..... ≤ 20 ppm    Sulphate ..... ≤ 0.02 %    Assay (acidimetric) ..... ≥ 99.0 %  
Ready carbonizable substances..... Conform    Phosphate ..... ≤ 5 ppm    Heavy metals (Pb)..... ≤ 20 ppm

Code	Size	Packaging	Notes
411524	100 g	Glass bottle	
411525	250 g	Plastic bottle	
411527	1 kg	Plastic bottle	

### Trichloroacetic acid > RE - Pure

RE

Description ..... Colourless crystals    Water ..... ≤ 0.3 %    Assay (acidimetric) ..... ≥ 98.5 %  
Identification ..... Positive    Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
307557	1 kg	Plastic bottle	
307558	5 kg	Plastic jar	



## Trichloroacetic acid solution 20%

Acido tricloroacetico soluzione 20% • Acide trichloroacétique 20% • Acido tricloroacético solución 20%

Synonym:  
TCA

CCl<sub>3</sub>COOH  
Molecular Weight: 163,39  
CAS: 76-03-9

**Classification transport**  
ONU: 2564  
Transport Hazard class: 8  
Packing group II



**Danger**  
H314-H335-H411  
P260-P303+P361+P353-P305+P351+P338-P310-  
P405-P501a

### Trichloroacetic acid solution 20% > RPE - For analysis

RPE

Description ..... Clear colourless liquid Assay (acidimetric) ..... 19.5 - 20.5 %

Code	Size	Packaging	Notes
411554000	1 l	Glass bottle	

**For the determination of iron in the blood according Heimayer. For protein precipitation. Content is guaranteed for standardized volumes at 20°C. Keep tightly closed**



## Trichloroacetic acid solution 3% in dichloromethane

Acido tricloroacetico soluzione 3% in diclorometano •  
Acide trichloroacétique solution 3% dans le dichlorométhane •  
Acido tricloroacético solución 3% en diclorometano

Synonym:  
TCA

CCl<sub>3</sub>COOH  
Molecular Weight: 163,39  
CAS: 76-03-9

**Classification transport**  
ONU: 2922  
Transport Hazard class: 8  
Packing group II

### Trichloroacetic acid solution 3% in dichloromethane > RPE - For analysis

RPE

Water content (K.F.) ..... ≤ 100 mg/Kg

Code	Size	Packaging	Notes
P0553574W	450 ml	Glass bottle	



## 1,2,4-Trichlorobenzene

1,2,4-Triclorobenzene • 1,2,4-Trichlorobenzène • 1,2,4-Triclorobenceno

C<sub>6</sub>H<sub>3</sub>Cl<sub>3</sub>  
Molecular Weight: 181,45  
CAS: 120-82-1  
EEC-N: 204-428-0

**Classification transport**  
ONU: 2321  
Transport Hazard class: 6.1  
Packing group III



**Warning**  
H302-H315-H410  
P264-P273-P280g-P330-P332+P313-P301+P312a

### 1,2,4-Trichlorobenzene > RPE - For analysis

RPE

Description ..... Clear colourless liquid Refractive index at 20°C ..... 1.5687 ÷ 1.5747 Water (K.F.) ..... ≤0.1 %  
Identification ..... Positive Boiling point ..... 212.5 ÷ 213.5 °C Residue on ignition ..... ≤10 ppm  
Density at 20° C ..... 1.451 ÷ 1.457 Melting point ..... 16.0 ÷ 18.0 °C Assay (GLC) ..... ≥98.5 %

Code	Size	Packaging	Notes
489382	1 l	Glass bottle	

**Should be stored at not less than 20 °C**



## 2,2,2-Trichloroethanol

2,2,2-Tricloroetanolo • 2,2,2-Trichloroéthanol • 2,2,2-Tricloroetanol

Cl<sub>3</sub>CCH<sub>2</sub>OH  
Molecular Weight: 149,4  
CAS: 115-20-8  
EEC-N: 204-071-0



**Danger**  
H302-H318-H336  
P264-P271-P280-P304+P340-  
P305+P351+P338-P330

### 2,2,2-Trichloroethanol > RPE - For analysis

RPE

Description ..... Clear colourless liquid Identification ..... Positive Refractive index at 20°C. 1.4885 ÷ 1.4905 Assay (GLC) ..... ≥98.5 %

Code	Size	Packaging	Notes
415271	100 ml	Glass bottle	

Trichloromethane ► Chloroform



## Triethanolamine

Trietanolammina • Triéthanolamine • Trietanolamina

Synonym:  
2,2',2''-Nitrilotriethanol  
Tris(2-hydroxyethyl)amine

(CH<sub>2</sub>OHCH<sub>2</sub>)<sub>3</sub>N  
Molecular Weight: 149,19  
CAS: 102-71-6  
EEC-N: 203-049-8

### Triethanolamine > RPE - For analysis

RPE

Description .....	Yellowish liquid	Density at 20° C .....	1.120 ÷ 1.128	Chloride.....	≤10 ppm	Residue on ignition.....	≤50 ppm
Identification .....	Positive	Refractive index at 20°C.....	1.4797 ÷ 1.4907	Diethanolamine.....	≤1.5 %	Sulphate.....	≤20 ppm
Water miscibility.....	Conform	Melting point.....	20.0 ÷ 22.0 ° C	Monoethanolamine.....	≤0.5 %	Fe.....	≤2 ppm
Alcohol miscibility.....	Complete	Water (K.F.).....	≤0.3 %	Heavy metals (Pb).....	≤2 ppm	Assay (non-aqueous medium).....	≥98 %

Code	Size	Packaging	Notes
489504	1 l	Glass bottle	
489501	30 kg	Metal drum	

Keep in a dark place

### Triethanolamine > ERBApharm - According to pharmacopeia : FU-Ph.Eur.

ERBApharm

Description .....	Clear colourless liquid or yellowish	Identification C.....	Pass test	Sulphated ash.....	≤ 0.1 %	Appearance of solution.....	Conform Ph.Eur.
Identification .....	Positive	Density at 20° C .....	1.120 ÷ 1.130	Diethanolamine.....	≤ 0.5 %	Total basis.....	99.0 ÷ 103.0 % anidro
Identification B.....	pass test	Refractive index at 20°C.....	1.482 ÷ 1.485	Monoethanolamine.....	≤ 0.1 %	Heavy metals (Pb).....	≤ 10 ppm
		Water (K.F.).....	≤ 1.0 %	Related substances.....	≤ 1.0 %	N-Nitrosodiethanolamine.....	≤ 24 ppb

Code	Size	Packaging	Notes
386301	1 l	Glass bottle	
386303	2.5 l	Glass bottle	
386304	30 kg	Metal drum	
386305	220 kg	Metal drum	

Keep in a dark place



## Triethylamine

Trietilammina • Triéthylamine • Trietilamina

Synonym:  
N,N-Diethylethanamine

(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>N  
Molecular Weight: 101,19  
CAS: 121-44-8  
EEC-N: 204-469-4

**Classification transport**  
ONU: 1296  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H302-H311-H332-H314-H335  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

### Triethylamine > RS - For HPLC - Isocratic Grade

RS

Clear, colourless liquid.....	Conform	Residue on evaporation .....	≤ 0.001 % (m/m)	UV transmittance at 250nm (0.1M).....	≥ 10 %
Water content (K.F.).....	≤ 0.05 % (m/m)	Assay (GC).....	≥ 99.7 %	UV transmittance at 254nm (0.1M).....	≥ 75 %

Code	Size	Packaging	Notes
489631	1 l	Glass bottle	
489633	2.5 l	Glass bottle	

### Triethylamine > RPE - For analysis

RPE

Description .....	Clear colourless liquid	Density at 20° C .....	0.725 ÷ 0.729	Boiling point.....	89.0 ÷ 90.0 °C	Assay (GLC).....	≥99.5 %
Identification .....	Positive	Refractive index at 20°C.....	1.3983 ÷ 1.4023	Residue on evaporation .....	≤100 ppm		

Code	Size	Packaging	Notes
489556	1 l	Glass bottle	

### Triethylamine > RE - Pure

RE

Description .....	Clear colourless liquid	Refractive index at 20°C.....	1.3953 ÷ 1.4053	Assay (GLC).....	≥99.5 %
Identification .....	Positive	Boiling point.....	88.5 ÷ 90.5 °C	Water (K.F.).....	≤ 0.1 %
Density at 20° C .....	0.724 ÷ 0.730	Residue on evaporation .....	≤0.02 %	Diethylamine.....	≤ 0.1 %

Code	Size	Packaging	Notes
386601	1 l	Glass bottle	
386603	5 l	Plastic tank	
386602	20 kg	Plastic drum	



## Triethylene glycol

Glicol trietilenico • Glycol triéthylénique • Trietilenglicol

Synonym:  
Triglycol

(CH<sub>2</sub>OHCH<sub>2</sub>OCH<sub>2</sub>)<sub>2</sub>  
Molecular Weight: 150,18  
CAS: 112-27-6  
EEC-N: 203-953-2



### Warning

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Triethylene glycol > RPE - For analysis

RPE

Description .....	Clear colourless liquid	Density at 20° C .....	1.123 ÷ 1.131	Chloride.....	≤ 2 ppm	Sulphate .....	≤ 20 ppm
Identification .....	Positive	Refractive index at 20°C. 1.4553 ÷ 1.4603		Heavy metals (Pb).....	≤ 2 ppm	Fe .....	≤ 2 ppm
Water miscibility.....	Conform	Water (K.F.) .....	≤ 0.2 %	Peroxides (H <sub>2</sub> O <sub>2</sub> ) .....	≤ 50 ppm	Assay (GLC) .....	≥ 98 %
Alcohol miscibility.....	Complete	Acidity (acetic acid).....	≤ 60 ppm	Residue on ignition.....	≤ 30 ppm		

Code	Size	Packaging	Notes
454111	1 l	Glass bottle	
454112	30 kg	Plastic drum	



## Trifluoroacetic acid

Acido trifluoroacetico • Acide trifluoroacétique • Acido trifluoroacético

Synonym:  
TCA

CF<sub>3</sub>COOH  
Molecular Weight: 114,02  
CAS: 76-05-1  
EEC-N: 200-929-3

### Classification transport

ONU: 2699  
Transport Hazard class: 8  
Packing group I



### Danger

H332-H314-H412  
P264-P273-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

### Trifluoroacetic acid > RS - For LC/MS

RS

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 0.05 %	Fluoride .....	≤ 50 ppm	Assay (acidimetric) .....	≥ 99.9 %
Identification .....	Positive	Chloride.....	≤ 10 ppm	Sulphate .....	≤ 10 ppm	Suitability.....	LC-MS Tested

Code	Size	Packaging	Notes
411541	10 x 1 ml	Ampoule	
411542	10 x 2.5ml	Ampoule	
411543	50 ml	Plastic bottle	

### Eluent phase additive for LC-MS

### Trifluoroacetic acid > RS - SPECTROSOL - For optical spectroscopy

RS

Appearance .....	Clear colourless liquid	Water content (K.F.) .....	≤ 0.05 % m/m	UV Absorbance at 280 nm .....	≤ 0.05 AU	UV Absorbance at 320 nm .....	≤ 0.03 AU
Identification (IR).....	Conform	UV Absorbance at 260 nm .....	≤ 1 AU	UV Absorbance at 290 nm .....	≤ 0.04 AU	Content (Acidimetry) .....	99.9 - 101.0 % m/m
Density d <sub>20/4</sub> .....	1.480 - 1.500	UV Absorbance at 270 nm .....	≤ 0.1 AU	UV Absorbance at 300 nm .....	≤ 0.03 AU	Purity (GC) .....	≥ 99 %

Code	Size	Packaging	Notes
P0082746	1 l	Glass bottle PVC coated	
P0082747	2.5 l	Glass bottle PVC coated	

### Trifluoroacetic acid > RS - For peptide synthesis

RS

Identification (IR).....	Conform	Colour .....	≤ 10 Hazen	Content (Acidimetry) .....	≥ 99.9 % m/m	Sulphate (SO <sub>4</sub> <sup>-</sup> ) .....	≤ 20 mg/Kg
Density d <sub>20/4</sub> .....	1.480 - 1.500	Water content (K.F.) .....	≤ 500 mg/Kg	Chloride (Cl <sup>-</sup> ).....	≤ 20 mg/Kg	Fluoride .....	≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0082103	100 ml	Plastic bottle	
P0082147	2.5 l	Glass bottle PVC coated	

### Trifluoroacetic acid > RPE - For analysis

RPE

Description .....	Clear colourless liquid	Water (K.F.) .....	≤ 0.05 %	Sulphate .....	≤ 10 ppm
Identification .....	Positive	Assay (acidimetric) .....	≥ 99.9 %		

Code	Size	Packaging	Notes
411561	100 ml	Glass bottle	
411564	250 ml	Glass bottle	

## Trifluoroacetic acid > RE - Pure

**RE**

Identification (IR).....Conform      Colour ..... ≤ 10 Hazen      Content (Acidimetry) ..... ≥ 99 % m/m      Sulphate (SO4--) ..... ≤ 20 mg/Kg  
 Density d20/4 ..... 1.480 - 1.500      Water content (K.F.) ..... ≤ 1000 mg/Kg      Chloride (Cl-) ..... ≤ 20 mg/Kg      Fluoride ..... ≤ 50 mg/Kg

Code	Size	Packaging	Notes
P0080247	2.5 l	Glass bottle PVC coated	
P0080212	1 kg	Glass bottle PVC coated	
P0080297	30 kg	Plastic bucket	



## Trifluoroacetic acid-d

Acido trifluoroacetico-d • Acide trifluoroacétique-d • Acido trifluoroacético-d

CF<sub>3</sub>COOD  
 Molecular Weight: 115,03  
 CAS: 599-00-8  
 EEC-N: 209-961-2

**Classification transport**  
 ONU: 2699  
 Transport Hazard class: 8  
 Packing group I



**Danger**  
 H332-H314-H412  
 P264-P273-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

## Trifluoroacetic acid-d > RS - For NMR - min 99.5%

**RS**

Code	Size	Packaging	Notes
P5419A	2 x 0.75 ml	Glass ampoule	
P5413A	5 ml	Glass ampoule	



## Trifluoroacetic anhydride

Anidride trifluoroacetica • Anhydride trifluoroacétique • Anhidrido trifluoroacético

Synonym:  
 TFAA

(CF<sub>3</sub>CO)<sub>2</sub>O  
 Molecular Weight: 210,04  
 CAS: 407-25-0  
 EEC-N: 206-982-9

**Classification transport**  
 ONU: 3265  
 Transport Hazard class: 8  
 Packing group I



**Danger**  
 H301-H314  
 P264-P280-P301+P330+P331-P303+P361+P353-  
 P304+P340-P305+P351+P338

## Trifluoroacetic anhydride > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Density at 20° C ..... 1.511 ÷ 1.515      Assay (as anhydride)..... ≥98 %  
 Identification ..... Positive      Residue on evaporation ..... ≤10 ppm

Code	Size	Packaging	Notes
422225	500 ml	Glass bottle	

### For derivatization



## 1,1,1-Trifluoroacetyltrifluoroacetone

1,1,1-Trifluoroacetyltrifluoroacetone • 1,1,1-Trifluoroacétyltrifluoroacétone •  
 1,1,1-Trifluoroacetyltrifluoroacetona

Synonym:  
 Hexafluoroacetylacetone  
 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione

C<sub>6</sub>H<sub>2</sub>F<sub>6</sub>O<sub>2</sub>  
 Molecular Weight: 208,06  
 CAS: 1522-22-1  
 EEC-N: 216-191-0

**Classification transport**  
 ONU: 2920  
 Transport Hazard class: 8  
 Packing group II



**Danger**  
 H226-H314  
 P210-P241-P264-P301+P330+P331-  
 P303+P361+P353-P304+P340-P305+P351+P338-  
 P403+P235

## 1,1,1-Trifluoroacetyltrifluoroacetone > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid      Identification ..... Positive      Assay (GLC) ..... 98 ÷ 100 %

Code	Size	Packaging	Notes
490162	10 ml	Glass bottle	



### Trifluoroethanol-d2

Trifluoroetanolo-d2 • Trifluoroéthanol-d2 • Trifluoroetanol-d2

Synonym:

2,2,2-Trifluoroethanol-d2

CF<sub>3</sub>CD<sub>2</sub>OH

Molecular Weight: 103,06

CAS: 77253-67-9

#### Classification transport

Transport Hazard class: NC

#### Trifluoroethanol-d2 > RS - For NMR - min 99%

RS

Code	Size	Packaging	Notes
P5449A	2 x 0.75 ml	Glass ampoule	

1,2,3-Trihydroxybenzene ▶ Pyrogallol

1,3,5-Trihydroxybenzene ▶ Phloroglucinol

3,4,5-Trihydroxybenzoic acid monohydrate ▶ Gallic acid monohydrate

2,4,6-Trihydroxypyrimidine ▶ Barbituric acid

Triiodomethane ▶ Iodoform



### Trimethylamine hydrochloride

Trimetilamina cloridrato • Triméthylamine chlorhydratée • Trimetilamina clorhidrato

Synonym:

Trimethylammonium chloride

(CH<sub>3</sub>)<sub>3</sub>N.HCl

Molecular Weight: 95,57

CAS: 593-81-7

EEC-N: 209-810-0

#### Trimethylamine hydrochloride > RPE - For analysis

RPE

Description ..... White crystals Identification ..... Positive Assay (non-aqueous medium) ..... ≥ 98 %

Code	Size	Packaging	Notes
489803	50 g	Glass bottle	



### Trimethylcetylammmonium bromide

Trimetilcetilammmonio bromuro • Triméthylcétylammmonium bromure • Trimetilcetilamonio bromuro

Synonym:

Hexadecyltrimethylammonium bromide  
CTAB

CH<sub>3</sub>(CH<sub>2</sub>)<sub>15</sub>N(CH<sub>3</sub>)<sub>3</sub>Br

Molecular Weight: 364,46

CAS: 57-09-0

EEC-N: 200-311-3

#### Classification transport

ONU: 3077

Transport Hazard class: 9

Packing group III



#### Danger

H302-H315-H318-H335-H410

P264-P273-P271-P304+P340-

P305+P351+P338-P330

#### Trimethylcetylammmonium bromide > RPE - For analysis

RPE

Description ..... White crystalline powder Identification ..... Positive Assay (non-aqueous medium) ..... ≥ 99.0 %

Code	Size	Packaging	Notes
489833	50 g	Plastic bottle	
489831	500 g	Plastic bottle	
489834	25 kg	Plastic bucket	



## Trimethylcetylammmonium p-toluenesulfonate

Trimetilcetilammonio p-toluenosulfonato • Triméthylcétylammonium p-toluènesulfonate • Trimetilcetilammonio p-toluenosulfonato

Synonym:  
Hexadecyltrimethylammonium p-toluenesulfonate  
Cetyltrimethylammonium p-toluenesulfonate

$\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{N}(\text{CH}_3)_3(\text{CH}_2)_{15}\text{CH}_3$   
Molecular Weight: 455,74  
CAS: 138-32-9  
EEC-N: 205-324-8



**Warning**  
H302-H312-H332-H315-H319-H335  
P264-P271-P280-P304+P340-  
P305+P351+P338-P330

### Trimethylcetylammmonium p-toluenesulfonate > RE - Pure

**RE**

Description ..... White powder      Soluz. in acqua (1:200).....Complete      Assay ..... ≥ 99.0 %  
Identification ..... Positive      pH sol. 1%..... 5.0 ÷ 8.0

Code	Size	Packaging	Notes
387207	1 kg	Plastic bottle	

## 2,2,4-Trimethylpentane ▶ Isooctane



## n-Trimethylsilylacetamide

n-Trimetilsililacetamide • n-Triméthylsilylacétamide • n-Trimetilsililacetamida

Synonym:  
TMS acetamide

$\text{CH}_3\text{CONHSi}(\text{CH}_3)_3$   
Molecular Weight: 131,25  
CAS: 13435-12-6  
EEC-N: 236-565-7

**Classification transport**  
ONU: 1325  
Transport Hazard class: 4.1  
Packing group II



**Danger**  
H228  
P210-P370+P378a

### n-Trimethylsilylacetamide > RPE - For analysis

**RPE**

Description ..... White crystalline mass      Identification ..... Positive      Melting point ..... 38 ÷ 43 ° C

Code	Size	Packaging	Notes
489951	25 g	Glass bottle	

#### For derivatization



## 3-Trimethylsilylpropionic acid sodium salt-d4

3-Trimetilsililpropionato sodico-d4 • 3-Triméthylsilylpropionate-d4 • 3-Trimetilsililpropionate-d4

Synonym:  
3-(Trimethylsilyl)propionic-2,2,3,3-d4 acid sodium salt

$\text{C}_6\text{H}_9\text{D}_4\text{NaO}_2\text{Si}$   
Molecular Weight: 172,27  
CAS: 24493-21-8  
EEC-N: 246-286-2

### 3-Trimethylsilylpropionic acid sodium salt-d4 > RS - For NMR

**RS**

Code	Size	Packaging	Notes
P5462	1 g	Glass bottle	

## 1,3,7-Trimethylxanthine ▶ Caffeine anhydrous

## 2,4,6-Trinitrophenol ▶ Picric acid solution



## Triocetylphosphine oxide

Triottilfosfina ossido • Triocetylphosphine oxyde • Triottilfosfina óxido

Synonym:  
TOPO

$(\text{C}_8\text{H}_{17})_3\text{PO}$   
Molecular Weight: 386,65  
CAS: 78-50-2  
EEC-N: 201-121-3



**Warning**  
H315-H319  
P264-P280-P305+P351+P338-P332+P313-  
P337+P313-P302+P352a

### Triocetylphosphine oxide > RPE - For analysis

**RPE**

Description ..... White crystals      Identification ..... Positive      Melting point ..... 52 ÷ 57 ° C      Assay (GLC) ..... ≥ 98.5 %

Code	Size	Packaging	Notes
489581	50 g	Glass bottle	





### Triphenylphosphine

Trifenilfosfina • Triphénylphosphine • Trifenilfosfina

Synonym:  
Phosphorstriphenyl

(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>P

Molecular Weight: 262,29

CAS: 603-35-0

EEC-N: 210-036-0

#### Classification transport

ONU: 3464

Transport Hazard class: 6.1

Packing group III



#### Warning

H302-H317-H410

P264-P273-P261-P280g-P330-P301+P312a

#### Triphenylphosphine > RPE - For analysis

RPE

Description ..... White powder Identification ..... Positive Melting point ..... 80.0 ÷ 82.0 ° C Assay (GLC) ..... ≥98 %

Code	Size	Packaging	Notes
489591	100 g	Glass bottle	



### 2,3,5-Triphenyltetrazolium chloride

2,3,5-Trifeniltetrazolo cloruro • 2,3,5-Triphényltétrazolium chlorure • 2,3,5-Trifeniltetrazolio cloruro

Synonym:  
TPTZ  
Tetrazolium Red

(C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>CN<sub>4</sub>Cl

Molecular Weight: 334,81

CAS: 298-96-4

EEC-N: 206-071-6



#### Warning

H315-H319-H335

P264-P271-P304+P340-P305+P351+P338-P312a-

P332+P313

#### 2,3,5-Triphenyltetrazolium chloride > RPE - For analysis

RPE

Description ..... White yellowish powder Loss on drying ..... ≤9 % Glucose sensitivity ..... ≥0.05 (mg/ml)  
Identification ..... Positive Residue on ignition ..... ≤0.5 % Assay (non-aqueous medium) ..... 99 ÷ 100 % s s

Code	Size	Packaging	Notes
489651	10 g	Glass bottle	



### 2,4,6-Tri-(2-pyridyl)-s-triazine

2,4,6-(Tripiridile-2)-s-triazina • 2,4,6-(Tripiridil-2)s-triazine • 2,4,6-(Tripiridilo-2)s-triacina

Synonym:  
TPTZ

C<sub>18</sub>H<sub>12</sub>N<sub>6</sub>

Molecular Weight: 312,33

CAS: 3682-35-7

EEC-N: 222-965-9

#### 2,4,6-Tri-(2-pyridyl)-s-triazine > RPE - For analysis

RPE

Description ..... Yellow crystalline powder Melting point ..... 249.0 ÷ 251.0 ° C Iron sensitivity ..... ≥0.1 µg/ml  
Identification ..... Positive Residue on ignition ..... ≤0.1 %

Code	Size	Packaging	Notes
489881	1 g	Glass bottle	

For the spectrophotometric determination of Iron



### Tris (hydroxymethyl)-aminomethane

Tris idrossimetilamminometano • Tris(hydroxyméthyl)aminométhane • Tris (hidroximetil)aminometano

Synonym:  
Tris base

NH<sub>2</sub>C(CH<sub>2</sub>OH)<sub>3</sub>

Molecular Weight: 121,14

CAS: 77-86-1

EEC-N: 201-064-4



#### Warning

H315-H319

P264-P280-P305+P351+P338-P332+P313-

P337+P313-P362

#### Tris (hydroxymethyl)-aminomethane > RS - For pHmetry

RS

Description ..... White crystalline powder Solution colour ..... ≤25 APHA Residue on ignition ..... ≤0.1 % Assay (alkalimetric) ..... ≥99.3 % s.s.  
Identification ..... Positive Melting point ..... ≥168.5 °C Heavy metals (Pb) ..... ≤5 ppm  
pH solution 5% ..... 10.0 ÷ 11.5 Water (K.F.) ..... ≤0.5 % Absorbance ..... ≤0.2

Code	Size	Packaging	Notes
489973	1 kg	Plastic bottle	
489971	25 kg	Plastic bucket	

## Tris (hydroxymethyl)-aminomethane > RPE - For analysis

**RPE**

Description .....	White crystalline powder	pH (1M a 25 °C).....	10.5 ÷ 11.5	Heavy metals (Pb).....	≤2 ppm	Fe .....	≤1 ppm
Identification .....	Positive	Loss on drying .....	≤0.5 %	Residue on ignition.....	≤500 ppm	Assay (alkalimetric).....	≥99.5 %
Melting point.....	168 ÷ 172 ° C	Water-insoluble matter .....	≤100 ppm	Cu .....	≤1 ppm		

Code	Size	Packaging	Notes
489981	100 g	Plastic bottle	
489984	500 g	Plastic bottle	
489983	1 kg	Plastic bottle	
489982	10 kg	Carton drum	
489985	25 kg	Plastic bucket	

## Tris (hydroxymethyl)-aminomethane > RE - Pure

**RE**

Description .....	White crystalline powder	pH (1M a 25 °C).....	10.5 ÷ 11.5	Heavy metals (Pb).....	≤2 ppm	Assay (alkalimetric).....	≥99 %
Identification .....	Positive	Loss on drying .....	≤1 %	Residue on ignition.....	≤500 ppm	Fe .....	≤2 ppm
Melting point.....	168 ÷ 172 ° C	Water-insoluble matter .....	≤100 ppm				

Code	Size	Packaging	Notes
313432	1 kg	Plastic bottle	
313431	25 kg	Plastic bucket	



## Tris(hydroxymethyl)aminomethane solution

Tris idrossimetilamminometano soluzione • Tris(hydroxyméthyl)aminométhane solution • Tris (hidroximetil)aminometano solución

### Tris(hydroxymethyl)aminomethane solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611094201	100 ml	Plastic bottle	Ref Ph.Eur 1094201



## Tris(hydroxymethyl)aminomethane buffer solution pH 8.1

Tampone tris(idrossimetil)aminometano tampn soluzione pH 8.1 • Tampon tris(hydroxyméthyl)aminométhane pH 8.1 • Tris (hidroximetil)aminometano solución tampón pH 8.1

### Tris(hydroxymethyl)aminomethane buffer solution pH 8.1 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614006200	1 l	Plastic bottle	Ref Ph.Eur 4006200



## Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4

Tampone tris(idrossimetil)aminometano - EDTA pH 7.4 • Tampon tris(hydroxyméthyl)aminométhane-EDTA pH 8.4 • Tampón tris(hidroximetil)aminometano - EDTA pH 7.4

### Tris(hydroxymethyl)aminomethane-EDTA buffer solution pH 8.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614006600	1 l	Plastic bottle	Ref Ph.Eur 4006600



## Tris (hydroxymethyl)-aminomethane hydrochloride

Tris idrossimetilamminometano cloridrato • Tris(hydroxyméthyl)aminométhane chlorhydraté • Tris (hidroximetil)aminometano hidrocioruro

Synonym:  
2-Amino-2(hydroxymethyl)1,3-propanediol hydrochloride

$\text{NH}_2\text{C}(\text{CH}_2\text{OH})_3\cdot\text{HCl}$   
Molecular Weight: 157,6  
CAS: 1185-53-1  
EEC-N: 214-684-5



**Warning**  
H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-P312a

### Tris (hydroxymethyl)-aminomethane hydrochloride > RPE - For analysis

**RPE**

Description .....White crystals Ba .....≤ 1 ppm Mg .....≤ 10 ppm Melting point..... 150 ÷ 154 °C  
Identification ..... Positive Ca .....≤ 10 ppm Mn .....≤ 1 ppm  
Pb .....≤ 5 ppm Cu .....≤ 1 ppm Assay ..... ≥ 99 %  
As .....≤ 10 ppm Fe .....≤ 2 ppm Absorbance (1M acq. 280 nm)..... ≤ 0.05

Code	Size	Packaging	Notes
479911	100 g	Plastic bottle	
479912	500 g	Plastic bottle	
479913	1 kg	Plastic bottle	



## Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4

Tampone tris(idrossimetil)aminometano sodio cloruro pH 7.4 • Tampon tris(hydroxyméthyl)aminométhane-chlorure de sodium pH 7.4 • Tampón tris(hidroximetil)aminometano sodio cloruro pH 7.4

### Tris(hydroxymethyl)aminomethane sodium chloride buffer solution pH 7.4 > RS - For analysis according to Ph. Eur. Chap. 4.1.3

**RS**

Code	Size	Packaging	Notes
614004900	1 l	Plastic bottle	Ref Ph.Eur 4004900



## Triton® X100 solution

Triton® X100 soluzione • Triton® X100 solution • Triton® X100 solución

Synonym:  
4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol

$4-(\text{C}_6\text{H}_4)_2\text{C}_6\text{H}_4(\text{OCH}_2\text{CH}_2)_n\text{OH}$   
CAS: 9002-93-1



**Danger**  
H302-H318-H412  
P264-P273-P280-P305+P351+P338-P330-P301+P312a

### Triton® X100 solution > RE - Pure

**RE**

Clear to light unclear liquid ..... Conform Density d20/4 ..... 1.055 - 1.075 Colour .....≤ 60 Hazen  
Appearance .....Without particles in suspension Water content (K.F.) .....≤ 2000 mg/Kg Cloud point (1% in water)..... 63 - 69 °C

Code	Size	Packaging	Notes
P0120041	10 l	Plastic tank	



## Tropaeolin O

Tropeolina O • Tropéoline O • Tropeolina O

Synonym:  
Tropaeolin O sodium salt  
Acid Orange 6

$\text{C}_{12}\text{H}_9\text{N}_2\text{NaO}_5\text{S}$   
Molecular Weight: 316,27  
CAS: 547-57-9  
EEC-N: 208-924-8



**Warning**  
H315-H319  
P264-P280g-P280i-P305+P351+P338-P332+P313-P337+P313

### Tropaeolin O > RPE - For analysis - C.I. 14270

**RPE**

Description .....Polvere marrone arancio Loss on drying .....≤15 % pH range ..... 11.1 - 12.7  
Identification ..... Positive Colour change..... giallo arancio

Code	Size	Packaging	Notes
490001	10 g	Glass bottle	
490002	25 g	Glass bottle	

a  
b  
c  
d  
e  
f  
g  
h  
i  
j  
k  
l  
m  
n  
o  
p  
q  
r  
s  
t  
u  
v  
w  
x  
y  
z

**Tropeolin O solution 0.1%**

Tropeolina O soluzione 0,1% • Tropéoline O solution 0.1% • Tropeolina O solución 0.1%

Synonym:  
Tropeolin O sodium salt  
Acid Orange 6C<sub>12</sub>H<sub>9</sub>N<sub>2</sub>NaO<sub>5</sub>S  
Molecular Weight: 316,27  
CAS: 547-57-9**Tropeolin O solution 0.1% > RPE - For analysis****RPE**Description ..... Orange clear liquid    Sensitivity (pH 11-13) ..... Conform    pH range ..... 11.1 - 12.7  
Identification ..... Positive    Colour change ..... giallo arancio

Code	Size	Packaging	Notes
E490056	500 ml	Bottle	

**Tubes 10 mm**

Tubi 10 mm • Tubes 10 mm • Tubos 10 mm

Classification transport  
Transport Hazard class: NC**Tubes 10 mm > RS - For NMR****RS**

Code	Size	Packaging	Notes
P588100UP	5 pc	Box	Type10UP (Ultra Precision) Length 178 mm

**Tubes 5 mm**

Tubi 5 mm • Tubes 5 mm • Tubos 5 mm

Classification transport  
Transport Hazard class: NC**Tubes 5 mm > RS - For NMR****RS**

Code	Size	Packaging	Notes
P588500HP	5 pc	Box	Type 5HP (High Precision) Length 178 mm
P588500UP	5 pc	Box	Type 5UP (Ultra Precision) Length 178 mm
P588501HP	5 pc	Box	Type 5HP (High Precision) Length 203 mm
P588505	5 pc	Box	Amber Type 5P (Precision) Length 178 mm
P588500TT	50 pc	Box	Type 5TA (Routine) Length 178 mm

**Tungsten standard solution**

Tungsteno standard soluzione • Tungstène solution standard • Tungsteno, solución patrón

Classification transport  
ONU: 1760  
Transport Hazard class: 8  
Packing group III**Tungsten standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505932	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Ammonium hydroxyde
505935	100 ml	Plastic bottle	conc. 100 ppm. Matrix : Ammonium hydroxyde

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Tungsten standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504051	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : 4% ammonia
504055	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : 10% ammonia
504058	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Water
504053	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : 4% ammonia
504057	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : 10% ammonia

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval

## Tungsten standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507765	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507521	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval



## Tungstic acid

Acido tungstico • Acide tungstique • Acido tungstico

H<sub>2</sub>WO<sub>4</sub>  
 Molecular Weight: 249,86  
 CAS: 7783-03-1  
 EEC-N: 231-975-2

## Tungstic acid &gt; RPE - For analysis

RPE

Description ..... Yellow-greenish powder    Fe ..... ≤ 20 ppm    As ..... ≤ 10 ppm    Na ..... ≤ 30 ppm  
 Identification ..... Positive    Assay (WO<sub>3</sub>) ..... ≥ 92.0 % t.q.    Cu ..... ≤ 5 ppm    Si ..... ≤ 30 ppm  
 Loss on ignition ..... 6 ÷ 8 %    Al ..... ≤ 10 ppm    Mo ..... ≤ 50 ppm    Ti ..... ≤ 10 ppm

Code	Size	Packaging	Notes
411628	250 g	Plastic bottle	
411621	1 kg	Plastic bottle	



## Turk's reagent

Turk reattivo • Réactif de Turk • Türk reactivo

HEU210

## Turk's reagent &gt; RS - For microscopy

RS

Description ..... Purple liquid    Identification ..... Positive

Code	Size	Packaging	Notes
E490451	500 ml	Plastic bottle	

CE Dye for hematology



## L(-)Tyrosine

L(-)Tirošina • L(-)Tyrosine • L(-)Tirošina

Synonym:  
 (S)-2-Amino-3-(4-hydroxyphenyl)propionic acid

4-HOC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CHNH<sub>2</sub>COOH  
 Molecular Weight: 181,19  
 CAS: 60-18-4  
 EEC-N: 200-460-4

## L(-)Tyrosine &gt; RPE - For analysis

RPE

Description ..... White or yellowish powder    Loss on drying ..... ≤ 0.2 %    Total phosphorus ..... ≤ 10 ppm    Total sulphur ..... ≤ 250 ppm  
 Identification ..... Positive    Ammonium ..... ≤ 300 ppm    Heavy metals (Pb) ..... ≤ 10 ppm    Fe ..... ≤ 10 ppm  
 Potere rotator. specif.(C=4 in HCl N/1). -9.6 °    Chloride ..... ≤ 300 ppm    Residue on ignition ..... ≤ 500 ppm    Assay (non-aqueous medium) ..... ≥ 99 %  
 ÷ -11.6 °

Code	Size	Packaging	Notes
488152	25 g	Glass bottle	

## Uranine ▶ Fluorescein sodium salt



### Uranium standard solution

Uranio standard soluzione • Uranium solution standard • Uranio, solución patrón

**Classification transport**  
 ONU: 3264  
 Transport Hazard class: 8  
 Packing group III



**Danger**  
 H314-H319  
 P264-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338

#### Uranium standard solution > RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505922	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505923	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*

#### Uranium standard solution > RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504031	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504035	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504033	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504037	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

*Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval*



### Urea

Urea • Urée • Urea

Synonym:  
 Carbamide  
 Carbonyldiamide

(NH<sub>2</sub>)<sub>2</sub>CO  
 Molecular Weight: 60,06  
 CAS: 57-13-6  
 EEC-N: 200-315-5

#### Urea > RPE - For analysis - ACS

RPE

Description ..... White crystalline powder    Chloride ..... ≤ 5 ppm    Heavy metals (Pb) ..... ≤ 10 ppm    Assay (non-aqueous medium) .99.0 ÷ 100.5 %  
 Identification ..... Positive    Sulphate ..... ≤ 10 ppm    Residue on ignition ..... ≤ 100 ppm  
 Melting point ..... 132 ÷ 135 °C    Water-insoluble matter ..... ≤ 100 ppm    Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
490757	100 g	Plastic bottle	
490758	500 g	Plastic bottle	
490759	1 kg	Plastic bottle	
490751	25 kg	Sack	

#### Urea > RE - Pure

RE

Description ..... White granules    Melting point ..... 130 ÷ 135 °C    Water-insoluble matter ..... ≤ 200 ppm  
 Identification ..... Positive    Ammoniacal salts ..... ≤ 0.2 %    Fe ..... ≤ 20 ppm

Code	Size	Packaging	Notes
387807	1 kg	Plastic bottle	
387809	5 kg	Plastic jar	
387801	50 kg	Sack	

**n-Valeric acid**

Acido valerico • Acide n-valérique • Acido valérico

Synonym:  
Pentanoic acid

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>COOH  
Molecular Weight: 102,13  
CAS: 109-52-4  
EEC-N: 203-677-2

**Classification transport**  
ONU: 3265  
Transport Hazard class: 8  
Packing group III



**Danger**  
H314-H412  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

**n-Valeric acid > RPE - For analysis****RPE**

Description ..... Clear colourless, very slightly yellow liq.    Refractive index at 20°C ..... 1.4036 ÷ 1.4136    Assay (GLC) ..... ≥ 98.5 %  
Identification ..... Positive    Water ..... ≤ 0.1 %

Code	Size	Packaging	Notes
411775	500 ml	Glass bottle	

**Vanadium standard solution**

Vanadio standard soluzione • Vanadium solution standard • Vanadio, solución patrón

**Classification transport**  
ONU: 3264  
Transport Hazard class: 8  
Packing group II

**Vanadium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2****RS**

Code	Size	Packaging	Notes
615003300	100 ml	Plastic bottle	A 1 g/l solution Ref Ph.Eur 5003300

**Vanadium standard solution > RS - Standard solution for ICP-MS****RS**

Code	Size	Packaging	Notes
505927	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505928	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505929	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Vanadium standard solution > RS - Standard solution for ICP****RS**

Code	Size	Packaging	Notes
504041	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504045	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504043	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504047	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Vanadium standard solution > RS - Standard solution for AAS****RS**

Description ..... Yellow clear liquid    Identification ..... Positive    Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507766	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497675	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Sulfuric acid
504187	500 ml	Plastic bottle	conc. 1000 ppm Matrix : Nitric acid
E497671	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Sulfuric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

**Vanadium standard solution > RS - NORMEX - Concentrated solution for AAS****RS**

Description ..... Blue clear liquid    Identification ..... Positive    Titration factor ..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
491091		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml



## Vanadium (V) oxide

Vanadio pentossido • Vanadium pentaoxyde • Vanadio pentóxido

Synonym:  
Vandia



Molecular Weight: 181,88  
CAS: 1314-62-1  
EEC-N: 215-239-8

### Classification transport

ONU: 2862  
Transport Hazard class: 6.1  
Packing group II



### Danger

H302-H332-H341-H361d-H335-H372-H411  
P264-P273-P271-P280-P304+P340-P308+P313

### Vanadium (V) oxide > RPE - For analysis

RPE

Description ..... Ochre powder Cr ..... ≤ 100 ppm Si ..... ≤ 200 ppm  
Identification ..... Positive Fe ..... ≤ 300 ppm Assay (oxidimetric) ..... ≥ 99.60 %

Code	Size	Packaging	Notes
491103	50 g	Glass bottle	
491105	250 g	Glass bottle	



## Vanillin

Vanillina • Vanilline • Vanillina

Synonym:  
4-Hydroxy-3-methoxybenzaldehyde



Molecular Weight: 152,15  
CAS: 121-33-5  
EEC-N: 204-465-2



### Warning

H302  
P264-P270-P330-P301+P312a-P501a

### Vanillin > ERBApharm - According to pharmacopoeia : BP-DAB-NF-Ph.Eur.-FU

ERBApharm

Description ..... Yellowish crystals Related compounds ..... Conform Ph.Eur. Loss (silica gel) ..... ≤1.0 % (4h)  
Identification ..... Positive React. w. sulphuric ac. .... Conform Ph.Eur. Sulphated ash ..... ≤500 ppm  
Appearance of solution ..... Conform Ph.Eur. Melting point ..... 81 ÷ 83 ° C Assay (alkalimetric) ..... 99.0 ÷ 101.0 % s.s.

Code	Size	Packaging	Notes
388104	100 g	Plastic bottle	
388107	1 kg	Plastic bottle	
388108	5 kg	Plastic jar	



## Vanillin solution, phosphoric

Vanillina soluzione, fosforico • Vaniline phosphorique solution • Vanillina solución fosfórica

### Classification transport

ONU: 2733  
Transport Hazard class: 3  
Packing group II



### Danger

H225-H314-H318  
P210-P241-P264-P301+P330+P331-  
P303+P361+P353-P304+P340-P305+P351+P338-  
P403+P235

### Vanillin solution, phosphoric > RS - For analysis according to Ph. Eur. Chap. 4.1.1

RS

Code	Size	Packaging	Notes
611095302	100 ml	Plastic bottle	Ref Ph.Eur 1095302

Vaseline ▶ Paraffin white soft



**Victoria blue**

Blu vittoria • Bleu Victoria • Azul Victoria

CAS: 1325-85-5  
EEC-N: 215-408-6**Classification transport**  
ONU: 3143  
Transport Hazard class: 6.1  
Packing group III**Warning**  
H302  
P264-P270-P330-P301+P312a-P501a**Victoria blue > RS - For microscopy - C.I. 42595****RS**

Description ..... Green granules Identification ..... Positive

Code	Size	Packaging	Notes
429381	10 g	Glass bottle	
429382	25 g	Glass bottle	

**Dye for microscopy (Anderson Method)****Viscosity standards**

Standard di viscosità • Standards de viscosité • Patrones de viscosidad

**Viscosity standards > RS - For calibration****RS**

Code	Size	Packaging	Notes
540801	500 ml	Glass bottle	6.7cSt@20°C, 5.8cSt@25°C, 4.2cSt@37.78°C, 4cSt@40°C, 3.2cSt@50°C
540802	500 ml	Glass bottle	14cSt@20°C, 12cSt@25°C, 8cSt@37.78°C, 7.5cSt@40°C, 5.8cSt@50°C
540803	500 ml	Glass bottle	20cSt@20°C, 16cSt@25°C, 11cSt@37.78°C, 10cSt@40°C, 7.5cSt@50°C
540804	500 ml	Glass bottle	30cSt@20°C, 24cSt@25°C, 15cSt@37.78°C, 14cSt@40°C, 10cSt@50°C
540805	500 ml	Glass bottle	88cSt@20°C, 66cSt@25°C, 35cSt@37.78°C, 32cSt@40°C, 21cSt@50°C
540806	500 ml	Glass bottle	160cSt@20°C, 120cSt@25°C, 60cSt@37.78°C, 54cSt@40°C, 35cSt@50°C
540807	500 ml	Glass bottle	790cSt@20°C, 580cSt@25°C, 280cSt@37.78°C, 250cSt@40°C, 160cSt@50°C
540808	500 ml	Glass bottle	3300cSt@20°C, 2300cSt@25°C, 1100cSt@37.78°C, 940cSt@40°C, 560cSt@50°C
540809	500 ml	Glass bottle	19000cSt@20°C, 12000cSt@25°C, 4000cSt@37.78°C, 3400cSt@40°C, 1700cSt@50°C
540810	500 ml	Glass bottle	28000cSt@20°C, 17000cSt@25°C, 6000cSt@37.78°C, 5100cSt@40°C, 2500cSt@50°C
540811	500 ml	Glass bottle	41000cSt@20°C, 25000cSt@25°C, 8000cSt@37.78°C, 6700cSt@40°C, 3200cSt@50°C



## Water

Acqua • Eau • Agua

H<sub>2</sub>O  
Molecular Weight: 18,02  
CAS: 7732-18-5  
EEC-N: 231-791-2

### Water > RS - For UHPLC-MS

RS

Description .....	Clear colourless liquid	Alkalinity .....	≤ 0.00005 %	<b>UHPLC gradient peak</b>	Ca .....	≤ 50 ppb
Colour .....	≤ 5 APHA	<b>Transmittance</b>		At 210 nm .....	Mg .....	≤ 20 ppb
Identification (I.R.) .....	Positive	At 200 nm .....	≥ 95 %	Drift at 210 nm .....	Na .....	≤ 50 ppb
Conductivity .....	≤ 0.09 µS/cm	At 230 nm .....	≥ 99 %	Drift at 254 nm .....	K .....	≤ 50 ppb
Residue on evaporation .....	≤ 0.4 ppm	<b>Fluorescence (quinine)</b>		Sensitive Impurities (reserpine) .....		
Total organic carbon .....	≤ 10 ppb	At 254 nm .....	≤ 0.3 ppb	Al .....		
Acidity .....	≤ 0.0002 %	At 365 nm .....	≤ 0.3 ppb	Fe .....		

Code	Size	Packaging	Notes
412091	1 l	Glass bottle	
412092	2.5 l	Glass bottle	

### Water > RS - For LC/MS

RS

Description .....	Clear colourless liquid	Gradiente HPLC (Test) .....	Conform	<b>Drift HPLC</b>	Fe .....	≤ 30 ppb
Colour .....	≤ 5 APHA	Acidity .....	≤ 0.0002 %	<b>Idon. test grad. LC-MS (TI-C, 100-2000m/z)</b>	Ca .....	≤ 50 ppb
Identification (I.R.) .....	Positive	Alkalinity .....	≤ 0.00005 %	Impurezze sensibili (reserpina) .....	Mg .....	≤ 20 ppb
Conductivity .....	≤ 0.09 µS/cm	<b>HPLC Gradient</b>		Contenuto metalli	Na .....	≤ 100 ppb
Residue on evaporation .....	≤ 0.5 ppm	at 210 nm .....	≤ 2 mAU	Al .....	K .....	≤ 50 ppb
Total organic carbon .....	≤ 10 ppb	at 254 nm .....	≤ 0.5 mAU			

Code	Size	Packaging	Notes
412111	1 l	Glass bottle	
412112	2.5 l	Glass bottle	

Filtered through 0.1 µm membrane

### Water > RS - For HPLC PLUS

RS

Description .....	Clear colourless liquid	<b>Fluorescence</b>	at 220 nm .....	≤ 3 mAU	Nitrate .....	≤ 0.1 ppm
Identification .....	Positive	at 365 nm .....	≤ 0.5 ppb	at 254 nm .....	CO <sub>2</sub> .....	Not detectable
Residue on evaporation .....	≤ 0.5 ppm	<b>UV Abs.max elut.peak</b>		Conductivity during production .....		
Total organic carbon .....	≤ 0.1 ppm	at 210 nm .....	≤ 5 mAU	Heavy metals (Pb) .....		

Code	Size	Packaging	Notes
412141	1 l	Glass bottle	
412142	2.5 l	Glass bottle	

### Water > RS - For Headspace chromatography

RS

Description .....	Clear colourless liquid	<b>GC/HS</b>	Residual solvent of class 2(acc. to ICH) .....	≤ 10 µg/g
Colour .....	≤ 10 APHA	Residual solvent of class 1(acc. to ICH) .....	Residual solvent of class 3(acc. to ICH) .....	≤ 50 µg/g
Residue on evaporation .....	≤ 2 ppm			

Code	Size	Packaging	Notes
412011	1 l	Glass bottle	

## Water > RS - Ultrapure - For trace analysis at ppt level

**RS**

Description .....	Clear liquid	Co .....	≤ 10 ppt	Mn .....	≤ 10 ppt	Na .....	≤ 10 ppt
Colour (APHA) .....	≤ 10	Cu .....	≤ 10 ppt	Hg .....	≤ 20 ppt	Sr .....	≤ 10 ppt
Identification .....	Positive	Dy .....	≤ 1 ppt	Mo .....	≤ 10 ppt	Ta .....	≤ 10 ppt
Chloride .....	≤ 1 ppb	Er .....	≤ 1 ppt	Nd .....	≤ 1 ppt	Te .....	≤ 1 ppt
Phosphate .....	≤ 1 ppb	Eu .....	≤ 1 ppt	Ni .....	≤ 10 ppt	Tb .....	≤ 10 ppt
Sulphate .....	≤ 1 ppb	Gd .....	≤ 1 ppt	Nb .....	≤ 10 ppt	Ti .....	≤ 10 ppt
Al .....	≤ 20 ppt	Ga .....	≤ 10 ppt	Pd .....	≤ 10 ppt	Th .....	≤ 1 ppt
Sb .....	≤ 10 ppt	Ge .....	≤ 10 ppt	Pt .....	≤ 10 ppt	Tm .....	≤ 10 ppt
As .....	≤ 10 ppt	Au .....	≤ 10 ppt	K .....	≤ 10 ppt	Sn .....	≤ 10 ppt
Ba .....	≤ 10 ppt	Hf .....	≤ 1 ppt	Pr .....	≤ 10 ppt	Ti .....	≤ 10 ppt
Be .....	≤ 10 ppt	Ho .....	≤ 1 ppt	Re .....	≤ 10 ppt	W .....	≤ 10 ppt
Bi .....	≤ 10 ppt	In .....	≤ 1 ppt	Rh .....	≤ 10 ppt	U .....	≤ 1 ppt
B .....	≤ 20 ppt	Fe .....	≤ 10 ppt	Rb .....	≤ 10 ppt	V .....	≤ 10 ppt
Cd .....	≤ 10 ppt	La .....	≤ 1 ppt	Ru .....	≤ 10 ppt	Yb .....	≤ 10 ppt
Ca .....	≤ 10 ppt	Pb .....	≤ 10 ppt	Sm .....	≤ 10 ppt	Y .....	≤ 1 ppt
Ce .....	≤ 10 ppt	Li .....	≤ 10 ppt	Sc .....	≤ 10 ppt	Zn .....	≤ 10 ppt
Cs .....	≤ 10 ppt	Lu .....	≤ 1 ppt	Se .....	≤ 50 ppt	Zr .....	≤ 10 ppt
Cr .....	≤ 10 ppt	Mg .....	≤ 10 ppt	Ag .....	≤ 10 ppt		

Code	Size	Packaging	Notes
412185	500 ml	Plastic bottle	

## Water > RS - Superpure - For trace analysis at ppb level

**RS**

Description .....	Clear liquid	Resistivity .....	≥ 18 Mohm	Mg .....	≤ 50 ppb	at 254 nm .....	≤ 0.005
Identification .....	Positive	Total organic carbon .....	≤ 20 ppb	K .....	≤ 50 ppb	at 300 nm .....	≤ 0.005
Colour .....	≤ 5 APHA	Al .....	≤ 50 ppb	Assorbimento massimo (a 254 nm) ..	0.002	at 400 nm .....	≤ 0.005
Residue on evaporation .....	≤ 1 ppm	Ca .....	≤ 50 ppb	<b>Absorbance</b>		LC Gradiente (Suitability Test) .....	Conform
Fluorescenza (Chinina) .....	≤ 100 ppt	Fe .....	≤ 50 ppb	at 200 nm .....	≤ 0.01		

Code	Size	Packaging	Notes
412151	1 l	Glass bottle	

## Water > RS - For analysis according to Ph. Eur.Chapter 2.2.25

**RS**

Code	Size	Packaging	Notes
506411	100 ml	Glass bottle	Spectrophotometry Stray Light Blank

## Water > RS - For analysis according to Ph. Eur. Chap. 4.1.1

**RS**

Code	Size	Packaging	Notes
611095501	1 l	Plastic bottle	Water ammonium-free Ref Ph.Eur 1095501
611095506	1 l	Plastic bottle	Water nitrate-free Ref Ph.Eur 1095506

## Water > RPE - For analysis

**RPE**

Description .....	Clear colourless liquid	As .....	≤ 0.01 ppm	Cu .....	≤ 0.01 ppm	Pb .....	≤ 0.01 ppm
pH at 25°C .....	5 ÷ 7	Au .....	≤ 0.01 ppm	Fe .....	≤ 0.01 ppm	Si .....	≤ 0.01 ppm
Conductivity during production .....	≤ 0.1 µS/cm	B .....	≤ 0.01 ppm	In .....	≤ 0.01 ppm	Sn .....	≤ 0.01 ppm
Residue on evaporation .....	≤ 1 ppm	Ba .....	≤ 0.01 ppm	K .....	≤ 0.01 ppm	Sr .....	≤ 0.01 ppm
Residue on calcination .....	≤ 1 ppm	Be .....	≤ 0.01 ppm	Li .....	≤ 0.01 ppm	Ti .....	≤ 0.01 ppm
Chloride .....	≤ 0.1 ppm	Bi .....	≤ 0.01 ppm	Mg .....	≤ 0.01 ppm	V .....	≤ 0.01 ppm
Phosphate .....	≤ 0.1 ppm	Ca .....	≤ 0.01 ppm	Mn .....	≤ 0.01 ppm	Zn .....	≤ 0.01 ppm
Nitrate .....	≤ 0.1 ppm	Cd .....	≤ 0.01 ppm	Mo .....	≤ 0.01 ppm	Zr .....	≤ 0.01 ppm
Sulphate .....	≤ 0.1 ppm	Co .....	≤ 0.01 ppm	Na .....	≤ 0.1 ppm	Oxidizing substances (O) .....	≤ 0.4 mg/l
Ag .....	≤ 0.01 ppm	Cr .....	≤ 0.01 ppm	Ni .....	≤ 0.01 ppm		

Code	Size	Packaging	Notes
307582	5 l	Plastic bottle	
307591	5 l	Plastic tank	
307581	10 l	Plastic tank	
307586	10 l	Kubidos	
307584	20 l	Kubidos	
307583	25 kg	Plastic tank	
307587	25 kg	Plastic tank	With tap
307585	50 kg	Plastic drum	

Conform to EN-ISO 3696 grade 3



## Water + 0.1% v/v formic acid

Acqua + 0.1%(v/v) acido formico • Eau + 0.1%(v/v) acide formique • Agua + 0.1%(v/v) ácido fórmico

H<sub>2</sub>O

Molecular Weight: 18,02

CAS: 7732-18-5

### Water + 0.1% v/v formic acid > RS - For LC/MS

RS

Description ..... Clear colourless liquid

Colour ..... ≤ 10 APHA

Acidity (formic acid) ..... 0.095 ÷ 0.105 %

#### HPLC Gradient

At 210 nm ..... ≤ 50 mAU

At 254 nm ..... ≤ 10 mAU

#### Transmittance

At 230 nm ..... ≥ 45 %

pH at 20°C ..... 2.6 - 2.8

#### Test LC-MS TIC (100-2000m/z)

Sensitive Impurities (reserpine) ..... ≤ 50 ppb

#### Metals content

Al ..... ≤ 20 ppb

Fe ..... ≤ 30 ppb

Ca ..... ≤ 50 ppb

Mg ..... ≤ 20 ppb

Na ..... ≤ 100 ppb

K ..... ≤ 50 ppb

#### Raw material used

Water (code 412110) ..... Batch number

Formic acid 98-99% (code 405820) . Batch number

Code	Size	Packaging	Notes
412121	1 l	Glass bottle	
412122	2.5 l	Glass bottle	



## Water chlorine

Acqua di cloro • Eau de chlore • Agua de cloro

Cl<sub>2</sub>

Molecular Weight: 70,91

CAS: 7782-50-5

#### Classification transport

ONU: 3082

Transport Hazard class: 9

Packing group III



#### Warning

H400

P273-P391-P501a

### Water chlorine > RPE - For analysis

RPE

Description ..... Yellow clear liquid Identification ..... Positive Assay (ex chloryne) ..... 0.4 ÷ 0.7 % (p/p)

Code	Size	Packaging	Notes
411981	1 l	Glass bottle	



## Water deionized and acidified

Acqua deionizzata acidificata • Eau désionisée acidifiée • Agua desionizada acidificada

HNO<sub>3</sub>

Molecular Weight: 63,01

CAS: 7697-37-2

#### Classification transport

ONU: 1789

Transport Hazard class: 8

Packing group II



#### Danger

H314-H319-H335

P264-P271-P301+P330+P331-P303+P361+P353-

P304+P340-P305+P351+P338

### Water deionized and acidified > RS - Blanks for AAS, ICP, ICP-MS

RS

Code	Size	Packaging	Notes
504550	1 l	Bottle	Matrix : 2 % Nitric acid
504551	1 l	Bottle	Matrix : 5 % Nitric acid
504552	1 l	Bottle	Matrix : 10 % Nitric acid
504553	1 l	Bottle	Matrix : 2 % Hydrochloric acid
504554	1 l	Bottle	Matrix : 5 % Hydrochloric acid
504557	1 l	Bottle	Matrix : 10 % Hydrochloric acid

**Water purified**

Acqua purificata • Eau purifiée • Agua purificada

H<sub>2</sub>O  
 Molecular Weight: 18,02  
 CAS: 7732-18-5  
 EEC-N: 231-791-2

**Water purified > ERBApharm - According to pharmacopoeia : Ph.Eur.-FU-Ph.Franc.-BP-DAB-USP-JP****ERBApharm**

Description ..... Clear colourless liquid    Chloride ..... Pass test    Residue on evaporation ..... ≤10 ppm    Origin (BSE/TSE) ..... Mineral  
 Identification ..... Positive    Sulphate ..... Pass test    Ammonium ..... ≤0.2 ppm    Total Organic Carbon ..... ≤ 0.05 ppm  
 pH ..... 5.0 ÷ 7.0    Calcium ..... Conform Ph.Eu.    Nitrate ..... ≤0.2 ppm    Conductivity at 20°C . ≤ 1.1 micromhos/cm  
 Acidity or alkalinity ..... Conform Ph.Eu.    Calcium + Magnesium ..... Conform Ph.Eu.    Heavy metals (Pb) ..... ≤0.1 ppm    **Production on-line parameter**  
 Oxidizable substances ..... Conform Ph.Eu.    Carbon dioxide ..... Conform

Code	Size	Packaging	Notes
307602	10 l	Kubidos	
307603	25 kg	Plastic tank	
307604	200 l	Plastic drum	

**Wijs' reagent**

Wijs reattivo • Réactif de Wijs • Wijs reactivo

**Classification transport**

ONU: 2920  
 Transport Hazard class: 8  
 Packing group II

**Danger**

H226-H314-H318-H373  
 P210-P241-P264-P301+P330+P331-  
 P303+P361+P353-P304+P340-P305+P351+P338-  
 P403+P235

**Wijs' reagent > RS - For detection of iodine index****RS**

Description ..... Brown clear liquid    Identification ..... Positive    Iodine value ..... ≥90

Code	Size	Packaging	Notes
E491901	250 ml	Glass bottle	
E491902	1 l	Glass bottle	

**Wool fat ▶ Lanolin anhydrous****Wright's stain solution in methanol**

Wright colorante soluzione in alcole metilico • Colorant de Wright solution methanolique • Colorante de Wright solución in alcohol metilico

**Classification transport**

ONU: 1230  
 Transport Hazard class: 3  
 Packing group II

**Danger**

H225-H301-H331-H370  
 P210-P241-P264-P303+P361+P353-P304+P340-  
 P403+P235

**Wright's stain solution in methanol > RS - For microscopy****RS**

Description ..... Blue clear liquid    Identification ..... Positive    Assorbanza a 518 nm ..... ≥ 0.17    Assorbanza a 660 nm ..... ≥ 0.15

Code	Size	Packaging	Notes
492011	100 ml	Glass bottle	

CE **Dye for hematology**



## Xylene, mix of isomers

Xilene, isomeri misti • Xylène, mélange d'isomères • Xileno, mezcla de isómeros

C<sub>8</sub>H<sub>10</sub>

Molecular Weight: 106,17

CAS: 1330-20-7

EEC-N: 292-694-9

### Classification transport

ONU: 1307

Transport Hazard class: 3

Packing group III



### Danger

H226-H312-H332-H315-H319-H335-H373-H304

P210-P241-P264-P303+P361+P353-P304+P340-P305+P351+P338-P403+P235

### Xylene, mix of isomers > RS - RSE - For electronic use

RS

Description	Clear liquid	Phosphate	≤1 ppm	Cd	≤0.005 ppm	Ni	≤0.01 ppm
Colour (APHA)	≤10	Heavy metals (Pb)	≤0.1 ppm	Co	≤0.01 ppm	Pb	≤0.01 ppm
Identification	Positive	Toluene	≤5000 ppm	Cr	≤0.01 ppm	Pt	≤0.05 ppm
Ready carbonizable substances	Conform	Total sulphur	≤3 ppm	Cu	≤0.01 ppm	Sb	≤0.01 ppm
Density at 20° C	0.864 ÷ 0.870	Ag	≤0.02 ppm	Fe	≤0.05 ppm	Sn	≤0.02 ppm
Boiling point	137.0 ÷ 140.0 °	Al	≤0.05 ppm	Ga	≤0.02 ppm	Sr	≤0.02 ppm
Resistivity	≥1 Mohm.cm	As	≤0.01 ppm	In	≤0.02 ppm	Tl	≤0.05 ppm
Water (K.F.)	≤100 ppm	Au	≤0.05 ppm	K	≤0.1 ppm	Tl	≤0.05 ppm
Residue on evaporation	≤5 ppm	B	≤0.01 ppm	Li	≤0.02 ppm	V	≤0.05 ppm
Acidity (HCl)	≤5 ppm	Ba	≤0.1 ppm	Mg	≤0.1 ppm	Zn	≤0.01 ppm
Alcalinity (NH3)	≤1 ppm	Be	≤0.02 ppm	Mn	≤0.01 ppm	Zr	≤0.05 ppm
Benzene	≤100 ppm	Bi	≤0.02 ppm	Mo	≤0.05 ppm		
Chloride	≤3 ppm	Ca	≤0.2 ppm	Na	≤0.1 ppm		

Code	Size	Packaging	Notes
492358	1 l	Glass bottle	
492359	2.5 l	Glass bottle	

### Xylene, mix of isomers > RPE - For analysis - ISO - ACS - Reag.Ph.Eur. - Reag.USP

RPE

Description	Clear liquid	Residue on evaporation	≤10 ppm	Al	≤0.5 ppm	Mg	≤0.1 ppm
Colour (APHA)	≤10	Acidity (benzoic acid)	≤14 ppm	Ba	≤0.1 ppm	Mn	≤0.02 ppm
Identification (I.R.)	Positive	Alcalinity (NH3)	≤2 ppm	Ca	≤0.5 ppm	Ni	≤0.02 ppm
Boiling point	137 - 140 °C	Benzene	≤50 ppm	Cd	≤0.05 ppm	Pb	≤0.05 ppm
Ready carbonizable substances	Conform	Ethylbenzene	≤25 %	Co	≤0.02 ppm	Sn	≤0.1 ppm
Density at 20° C	0.864 ÷ 0.870	Tiophene	≤1 ppm	Cr	≤0.02 ppm	Zn	≤0.05 ppm
Refractive index at 20°C	1.4947 ÷ 1.4987	Toluene	≤0.5 %	Cu	≤0.02 ppm	Assay(isomeric mixture)	≥99.0 %
Water (K.F.)	≤200 ppm	Total sulphur	≤3 ppm	Fe	≤0.1 ppm	Any single impurity	≤ 0.5 %

Code	Size	Packaging	Notes
492301	1 l	Glass bottle	
492306	2.5 l	Glass bottle	
492305	5 l	Plastic tank	
492303	23 kg	Metal drum	
492304	170 kg	Metal drum	

### Xylene, mix of isomers > RE - Pure - Low content in benzene

RE

Description	Clear liquid	Refractive index at 20°C	1.4917 ÷ 1.5017	Water (K.F.)	≤ 200 ppm	Assay (isomeric mix)	≥ 98.5 %
Identification (IR)	Positive	Boiling point	137.5 ÷ 139.5 °C	Benzene	≤ 50 ppm		
Density at 20°C	0.862 ÷ 0.872	Residue on evaporation	≤ 100 ppm	Total sulphur	≤ 100 ppm		

Code	Size	Packaging	Notes
392602	1 l	Glass bottle	
392603	2.5 l	Glass bottle	
528251	5 l	Plastic tank	
392605	23 kg	Metal drum	
392608	170 kg	Metal drum	
528252	200 l	Metal drum	

**o-Xylene**

o-Xilene • o-xylène • o-Xileno

Synonym:  
1,2-Dimethylbenzene

$C_6H_4(CH_3)_2$   
Molecular Weight: 106,17  
CAS: 95-47-6  
EEC-N: 202-422-2

**Classification transport**

ONU: 1307  
Transport Hazard class: 3  
Packing group II

**Danger**

H226-H312-H332-H315-H319-H335-H304  
P210-P241-P264-P303+P361+P353-P304+P340-  
P305+P351+P338-P403+P235

**o-Xylene > RPE - For analysis****RPE**

Description .....	Clear colourless liquid	Ready carbonizable substances.....	Conform	Water (K.F.) .....	≤300 ppm	Ethylbenzene.....	≤0.15 %
Identification .....	Positive	Density at 20° C .....	0.875 ÷ 0.885	Residue on evaporation .....	≤10 ppm	Tiophene .....	≤1 ppm
Alcohol miscibility.....	Complete	Refractive index at 20°C. 1.5028 ÷ 1.5088		Acidity (benzoic acid) .....	≤14 ppm	Toluene.....	≤0.15 %
Chloroform miscibility .....	Complete	Boiling point.....	139.0 ÷ 149.0 °C	Alcalinity (NH <sub>3</sub> ).....	≤2 ppm	Total sulphur.....	≤5 ppm
Diethyl ether miscib.....	Complete	Freezing point .....	-23.5 ÷ -26.5 °C	Benzene .....	≤0.15 %	Assay (GLC) .....	≥99 %

Code	Size	Packaging	Notes
492403	1 l	Glass bottle	
492404	2.5 l	Glass bottle	
492401	24 kg	Metal drum	

**Xylenecyanol**

Xilencianolo FF • Xylenecyanol FF • Xilenocianol FF

Synonym:  
Xylene Cyanol FF  
Acid blue 147

$C_{25}H_{27}N_2NaO_6S_2$   
Molecular Weight: 538,61  
CAS: 2650-17-1  
EEC-N: 220-167-5

**Warning**

H319  
P264-P280i-P305+P351+P338-P337+P313

**Xylenecyanol > RPE - For analysis****RPE**

Description .....	Cristalli verde intenso	Identification .....	Positive	Colour change.....	(rosa - verde)	pH range .....	3.2 - 4.2
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Code	Size	Packaging	Notes
492211	1 g	Glass bottle	
492212	25 g	Glass bottle	

**Dye for microscopy (histology). Acid base indicator. C.I. 42135****Xylenol orange**

Arancio xilenolo • Orange de xylénol • Naranja de xilenol

Synonym:  
Xylenol Orange disodium salt  
Cresolsulfonphtalein disodium salt

$C_{31}H_{30}O_{13}N_2SNa_2$   
Molecular Weight: 716,63  
CAS: 1611-35-4  
EEC-N: 216-553-8

**Warning**

H315-H319-H335  
P264-P271-P280-P304+P340-P305+P351+P338-  
P312a

**Xylenol orange > RPE - For analysis****RPE**

Description .....	Orange crystalline powder	Identification .....	Positive	Sens.as complex.indicat .....	Conform
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Code	Size	Packaging	Notes
423597	1 g	Glass bottle	
423598	5 g	Glass bottle	
423599	25 g	Glass bottle	

**Complexometric indicator**



## D(+)-Xylose

D(+)-Xilosio • D(+)-Xylose • D(+)-Xilosa



Molecular Weight: 150,13

CAS: 58-86-6

EEC-N: 200-400-7

### D(+)-Xylose > RPE - For analysis

**RPE**

Description ..... White crystalline powder      Specific optical rotation..... +19 ÷ +21 °      Chloride.....≤50 ppm      Residue on ignition..... ≤0.1 %  
 Identification ..... Positive      Water (K.F.) ..... ≤0.2 %      Heavy metals (Pb).....≤10 ppm      Sulphate .....≤50 ppm

Code	Size	Packaging	Notes
492803	50 g	Glass bottle	
492804	100 g	Glass bottle	

### D(+)-Xylose > RE - Pure

**RE**

Description ..... White crystalline powder      Specific optical rotation... +19.0 ÷ +20.0 °      Chloride.....≤50 ppm      Sulphate .....≤50 ppm  
 Identification ..... Positive      Loss on drying ..... ≤0.3 %      Heavy metals (Pb).....≤10 ppm      As .....≤1 ppm  
 Melting point..... 144 ÷ 148 ° C      Acidity (acetic acid).....≤300 ppm      Residue on ignition..... ≤0.1 %

Code	Size	Packaging	Notes
392631	500 g	Plastic bottle	
392635	25 kg	Plastic bucket	



**Ytterbium standard solution**

Itterbio standard soluzione • Ytterbium solution standard • Iterbio, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Ytterbium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505947	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505948	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Ytterbium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504071	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504075	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504073	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504077	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Ytterbium standard solution > RS - Standard solution for AAS**

RS

Code	Size	Packaging	Notes
507768	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507523	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Yttrium standard solution**

Ittrio standard soluzione • Yttrium solution standard • Itrio, solución patrón

**Classification transport**ONU: 3264  
Transport Hazard class: 8  
Packing group III**Yttrium standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505942	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505945	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505943	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Yttrium standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504061	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504065	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid
504063	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
504067	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Yttrium standard solution > RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507767	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
507522	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Yttrium (III) oxide

Ittrio ossido • Yttrium oxyde • Itrio óxido

Synonym:

Yttria



Molecular Weight: 225,82

CAS: 1314-36-9

EEC-N: 215-233-5



### Warning

H315-H319-H335

P264-P271-P280-P304+P340-P305+P351+P338-P312a

## Yttrium (III) oxide > RPE - For analysis

RPE

Description ..... White powder    Identification ..... Positive    Loss on ignition ..... ≤3 %    Assay (gravimetric) ..... 99 ÷ 100 % s s

Code	Size	Packaging	Notes
457107	1 g	Glass bottle	

**Ziehl-Neelsen's reagent**

Ziehl -Neelsen reattivo soluzione • Réactif de Ziehl-Neelsen en solution • Ziehl -Neelsen reactivo solución

**Classification transport**ONU: 2922  
Transport Hazard class: 8  
Packing group II**Danger**H302-H314-H318-H341  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Ziehl-Neelsen's reagent > RS - For bacteriology**

RS

Description ..... Red liquid Identification ..... Positive Assorbanza a 554 nm ..... ≥ 0.14

Code	Size	Packaging	Notes
493101	250 ml	Plastic bottle	
493102	1 l	Plastic bottle	

CE **Dye for bacteriology. Contains carbol fuchsin.****Zinc standard solution**

Zinco standard soluzione • Zinc solution standard • Zinc, solución patrón

Zn

**Danger**H314  
P264-P280-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Zinc standard solution > RS - For analysis according to Ph. Eur. Chap. 4.2.1**

RS

Code	Size	Packaging	Notes
612000800	100 g	Plastic bottle	Ref Ph.Eur 2000800

**Zinc standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2**

RS

Code	Size	Packaging	Notes
615003400	100 ml	Plastic bottle	A 5mg/l solution Ref Ph.Eur 5003400
615003402	100 ml	Plastic bottle	A 10 ppm solution : to dilute according to Ref Ph.Eur 5003402
615003403	100 ml	Plastic bottle	A 5 ppm solution : to dilute according to Ref Ph.Eur 5003403
615003409	100 ml	Plastic bottle	A 100 ppm solution : to dilute according to Ref Ph.Eur 5003401

**Zinc standard solution > RS - Standard solution for ICP-MS**

RS

Code	Size	Packaging	Notes
505952	100 ml	Plastic bottle	conc. 10 ppm. Matrix : Nitric acid
505955	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid
505953	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval****Zinc standard solution > RS - Standard solution for ICP**

RS

Code	Size	Packaging	Notes
504081	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504085	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid
504083	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
504087	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Zinc standard solution > RS - Standard solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
507769	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497685	100 ml	Glass bottle	conc. 1.000 ppm Matrix : Hydrochloric acid
507477	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid
E497681	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Zinc standard solution > RS - NORMEX - Concentrated solution for AAS

**RS**

Description ..... Clear colourless liquid Identification ..... Positive Titration factor..... 0.995 ÷ 1.005

Code	Size	Packaging	Notes
493151		Plastic vial	conc. 1.000 ppm Matrix : Nitric acid - Volume : 50 ml

**Volumetric concentrated solution to be diluted accordingly with the instructions for use printed on the package**



## Zinc, foil

Zinco, lastra • Zinc, lames • Zinc, hojas

Zn  
 Molecular Weight: 65,38  
 CAS: 7440-66-6  
 EEC-N: 231-175-3

## Zinc, foil > RPE - For analysis

**RPE**

Description ..... Grey foil Identification ..... Positive Assay (oxidimetric) ..... ≥98 %

Code	Size	Packaging	Notes
493507	1 kg	Bag	



## Zinc, granular

Zinco, granuli • Zinc, granule • Zinc, granulada

Zn  
 Molecular Weight: 65,38  
 CAS: 7440-66-6  
 EEC-N: 231-175-3

**Classification transport**  
 ONU: 1436  
 Transport Hazard class: 4.3  
 Packing group II



**Danger**  
 H250-H260-H410  
 P210-P223-P273-P222-P231+P232-P422a

## Zinc, granular > RPE - For analysis

**RPE**

 Description ..... Granuli grigi Subst. reducing KMnO4 ..... Conform Fe ..... ≤200 ppm  
 Identification ..... Positive As ..... ≤0.15 ppm Pb ..... ≤500 ppm

Code	Size	Packaging	Notes
493451	500 g	Plastic bottle	0.5 - 1 mm
493307	1 kg	Plastic bottle	1 - 7 mm
493309	5 kg	Plastic bottle	1 - 7 mm
493303	25 kg	Glass bottle	1 - 7 mm

**Zinc, powder**

Zinco, polvere • Zinc, poudre • Zinc, polvo

Zn

Molecular Weight: 65,38

CAS: 7440-66-6

**Classification transport**

ONU: 3077

Transport Hazard class: 9

Packing group III

**Warning**

H410

P273-P391-P501a

**Zinc, powder > RE - Pure****RE**

Description ..... Grey powder Identification ..... Positive Assay (oxidimetric) ..... &gt;85 %

Code	Size	Packaging	Notes
493705	250 g	Glass bottle	
493707	1 kg	Plastic bottle	
493702	25 kg	Metal drum	

**Zinc, activated**

Zinco, attivato • Zinc activé • Zinc, activado

Zn

CAS: 7440-66-6

**Warning**

H315-H319-H412

P264-P273-P280-P305+P351+P338-P332+P313-P337+P313

**Zinc, activated > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611096501	100 g	Plastic bottle	Ref Ph.Eur 1096501

**Zinc acetate dihydrate**

Zinco acetato diidrato • Zinc acétate dihydraté • Zinc acetato dihidrato

 $Zn(CH_3COO)_2 \cdot 2H_2O$ 

Molecular Weight: 219,49

CAS: 5970-45-6

**Warning**

H302

P264-P270-P330-P301+P312a-P501a

**Zinc acetate dihydrate > RPE - For analysis****RPE**

Description ..... White shining crystals Water-insoluble matter ..... ≤30 ppm Cu ..... ≤5 ppm Ni ..... ≤5 ppm  
 Identification ..... Positive Sulphate ..... ≤10 ppm Fe ..... ≤3 ppm Pb ..... ≤5 ppm  
 pH sol. 5% at 25° C ..... 6.2 ÷ 6.6 As ..... ≤0.4 ppm K ..... ≤100 ppm Assay (complexometric) ..... ≥99.5 %  
 Chloride ..... ≤5 ppm Ca ..... ≤100 ppm Mn ..... ≤5 ppm  
 Phosphate ..... ≤20 ppm Cd ..... ≤5 ppm Na ..... ≤50 ppm

Code	Size	Packaging	Notes
493806	100 g	Plastic bottle	
493807	1 kg	Plastic bottle	
493803	25 kg	Plastic bucket	

**Zinc acetate solution**

Zinco acetato soluzione • Zinc acétate solution • Zinc acetato solución

 $Zn(CH_3COO)_2 \cdot 2H_2O$ 

Molecular Weight: 219,49

CAS: 5970-45-6

**Zinc acetate solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611102301	1 l	Plastic bottle	Ref Ph.Eur 1102301



## Zinc carbonate basic

Zinco carbonato basico • Zinc carbonate basique • Zinc carbonato básico

[CO<sub>3</sub>]Zn<sub>2</sub>·3Zn(OH)<sub>2</sub>  
CAS: 5260-02-5  
EEC-N: 226-076-7

### Zinc carbonate basic > RPE - For analysis

RPE

Description ..... White powder Cd ..... ≤ 1 ppm Mn ..... ≤ 20 ppm Loss on drying ..... ≤ 3 %  
Identification ..... Positive Cu ..... ≤ 5 ppm Ni ..... ≤ 5 ppm Loss on ignition ..... 25.5 ± 0.5 %  
Sulphate ..... ≤ 0.5 % Fe ..... ≤ 20 ppm Pb ..... ≤ 5 ppm Assay (alkalimetric) ..... ≥ 69 % (ZnO)

Code	Size	Packaging	Notes
494006	500 g	Plastic bottle	



## Zinc chloride anhydrous

Zinco cloruro anidro • Zinc chlorure anhydre • Zinc cloruro anhidro

Synonym:  
Dichlorozinc

ZnCl<sub>2</sub>  
Molecular Weight: 136,28  
CAS: 7646-85-7  
EEC-N: 231-592-0

**Classification transport**  
ONU: 2331  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H314-H410  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Zinc chloride anhydrous > RPE - For analysis - ACS

RPE

Description ..... White crystals Nitrate ..... ≤ 30 ppm Fe ..... ≤ 10 ppm Pb ..... ≤ 50 ppm  
Identification ..... Positive Oxichloride(ZnO) ..... Conform K ..... ≤ 200 ppm Assay (argentimetric) ..... ≥ 97.0 %  
Ammonium ..... ≤ 50 ppm Sulphate ..... ≤ 100 ppm Mg ..... ≤ 100 ppm  
Diluted HCl-ins. matter ..... ≤ 50 ppm Ca ..... ≤ 600 ppm Na ..... ≤ 500 ppm

Code	Size	Packaging	Notes
494104	100 g	Plastic bottle	
494105	250 g	Plastic bottle	
494107	1 kg	Plastic bottle	

### Zinc chloride anhydrous > RE - Pure

RE

Description ..... White crystalline powder Sulphate ..... ≤ 0.05 % Assay (complexometric) ..... ≥ 97 %  
Identification ..... Positive Fe ..... ≤ 10 ppm

Code	Size	Packaging	Notes
393007	1 kg	Plastic bottle	
393009	5 kg	Plastic jar	
393002	25 kg	Plastic bucket	



## Zinc chloride solution 60%

Zinco cloruro soluzione 60% • Zinc chlorure solution à 60% • Zinc cloruro solución 60%

Synonym:  
Dichlorozinc

ZnCl<sub>2</sub>  
Molecular Weight: 136,28  
CAS: 7646-85-7

**Classification transport**  
ONU: 1840  
Transport Hazard class: 8  
Packing group III



**Danger**  
H302-H314-H318-H335-H400-H410  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338

### Zinc chloride solution 60% > RPE - For analysis

RPE

Description ..... Liquido incolore Identification ..... Positive Density at 20° C ..... ≥ 1.750

Code	Size	Packaging	Notes
E494301	1 l	Bottle	

**Zinc chloride solution, iodinated**

Zinco cloruro soluzione, iodata • Chlorure de zinc - Solution iodée • Zinc cloruro solución, yodada

Synonym:  
DichlorozincZnCl<sub>2</sub>  
Molecular Weight: 136,28  
CAS: 7646-85-7**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group III**Danger**H302-H314-H318-H334-H317-H335-H373-  
H400-H410  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338-P342+P311a**Zinc chloride solution, iodinated > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611096603	500 ml	Glass bottle	Ref Ph.Eur 1096602
611096602	1 l	Glass bottle	Ref Ph.Eur 1096602

**Storage: protected from light****Zinc chloride-formic acid solution**

Zinco cloruro - acido formico soluzione • Chlorure de zinc-acide formique - Solution • Zinc cloruro - ácido fórmico solución

**Classification transport**  
ONU: 1760  
Transport Hazard class: 8  
Packing group II**Danger**H302-H314-H318-H335-H411  
P264-P273-P301+P330+P331-P303+P361+P353-  
P304+P340-P305+P351+P338**Zinc chloride-formic acid solution > RS - For analysis according to Ph. Eur. Chap. 4.1.1****RS**

Code	Size	Packaging	Notes
611096601	1 l	Glass bottle	Ref Ph.Eur 1096601

**Zinc dibenzylthiocarbamate**

Zinco dibenzilditiocarbammato • Zinc dibenzylthiocarbamate • Zinc dibencilditiocarbammato

[(C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>)<sub>2</sub>NCSS]<sub>2</sub>Zn  
Molecular Weight: 610,2  
CAS: 14726-36-4  
EEC-N: 238-778-0**Zinc dibenzylthiocarbamate > RPE - For analysis****RPE**

Description ..... White powder    Identification ..... Positive    Melting point ..... 183 ÷ 185 ° C    Assay (complexometric) ..... ≥94 %

Code	Size	Packaging	Notes
494311	10 g	Glass bottle	

**Zinc nitrate hexahydrate**

Zinco nitrato esaldrato • Zinc nitrate hexahydraté • Zinc nitrato hexahidratado

Zn(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Molecular Weight: 297,47  
CAS: 10196-18-6  
EEC-N: 231-943-8**Classification transport**  
ONU: 1514  
Transport Hazard class: 5.1  
Packing group II**Danger**H272-H302-H315-H319-H335  
P221-P264-P210a-P271-P304+P340-  
P305+P351+P338**Zinc nitrate hexahydrate > RPE - For analysis****RPE**Description ..... White semitransparent crystals    Chloride ..... ≤ 100 ppm    Pb ..... ≤ 100 ppm  
Identification ..... Positive    Fe ..... ≤ 20 ppm    Assay (complexometric) ..... ≥ 97.5 %

Code	Size	Packaging	Notes
494506	100 g	Plastic bottle	
494507	1 kg	Plastic bottle	



## Zinc oxide

Zinco ossido • Zinc oxyde • Zinc óxido

ZnO  
Molecular Weight: 81,37  
CAS: 1314-13-2  
EEC-N: 215-222-5

**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III



**Warning**  
H410  
P273-P391-P501a

### Zinc oxide > RPE - For analysis

**RPE**

Description .....	White powder	Phosphate .....	≤5 ppm	As .....	≤0.5 ppm	Ni .....	≤10 ppm
Identification .....	Positive	Dil. H2SO4-ins. matter .....	≤100 ppm	Ca .....	≤50 ppm	Pb .....	≤50 ppm
Alcalinity .....	Conform	Nitrate .....	≤20 ppm	Cd .....	≤10 ppm	Zn .....	≤20 ppm
Loss on ignition .....	≤0.5 %	Subst. not ppt. (NH4)2S .....	≤0.1 %	Cu .....	≤5 ppm	Assay (alkalimetric) .....	≥99.0 %
Carbonate .....	≤0.2 %	Subst. reducing KMnO4 .....	≤10 ppm(15m)	Fe .....	≤10 ppm		
Chloride .....	≤5 ppm	Total sulphur .....	≤50 ppm	Mn .....	≤5 ppm		

Code	Size	Packaging	Notes
494606	100 g	Plastic bottle	
494607	1 kg	Plastic bottle	
494602	25 kg	Plastic bucket	

### Zinc oxide > ERBApharm - According to pharmacopoeia : Ph.Eur.-USP-FU-Ph.Franc.-BP

**ERBApharm**

Description .....	Yellowish powder	Fe - other heavy metals ... Conform USP-NF	Fe .....	≤200 ppm	Origin (BSE/TSE) .....	Synthesis
Identification .....	Positive	Loss on calcin. 500°C .....	Pb .....	≤50 ppm	Residual solvents (Current ICH) .....	Conform
Alcalinity .....	Conform Ph.Eur.	As .....	Assay (complexometric) .....	99.0 ÷ 100.5 %		
Coal and acid ins.matt. ....	Conform Ph.Eur.	Cd .....	s.s.c.			

Code	Size	Packaging	Notes
393507	1 kg	Plastic bottle	
393509	5 kg	Plastic jar	
393503	25 kg	Plastic bucket	



## Zinc stearate

Zinco stearato • Zinc stéarate • Zinc estearato

Synonym:  
Stearic acid zinc salt

C<sub>36</sub>H<sub>70</sub>O<sub>4</sub>Zn  
Molecular Weight: 632,33  
CAS: 557-05-1  
EEC-N: 209-151-9



**Warning**  
H335  
P271-P261-P304+P340-P312a-P403+P233-P405

### Zinc stearate > ERBApharm - Vegetal origin - According to pharmacopoeia : Ph.Eur.-USP-FU

**ERBApharm**

Description .....	White powder	Acidity or alkalinity .....	Conform Ph.Eur.	Chloride .....	≤ 250 ppm	Pb .....	≤ 10 ppm
Identification .....	Positive	Acidity ind. fat acids .....	195 ÷ 210	Sulphate .....	≤ 0.6 %	Assay as Zn (complexometric) .....	10.0 ÷ 12.0 %
Appearance of solution .....	Conform Ph.Eur.	Freezing point .....	≥54 °C	As .....	≤ 1.5 ppm	Assay as ZnO (complexometric) .....	12.5 ÷ 14.0 %
Solution appea. fat ac. ....	Conform Ph.Eur.	Alkaly-alkaline earth .....	≤ 1.0 %	Cd .....	≤ 5.0 ppm		

Code	Size	Packaging	Notes
395451	1 kg	Plastic bottle	
395452	10 kg	Plastic bucket	



**Zinc sulfate heptahydrate**

Zinco sulfato eptaidrato • Zinc sulfate heptahydraté • Zinc sulfato heptahidratado

ZnSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight: 287,54  
CAS: 7446-20-0**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III**Warning**  
H400-H410  
P273-P391-P501a**Zinc sulfate heptahydrate > RPE - For analysis - ACS****RPE**

Description .....	White crystals	Chloride .....	≤5 ppm	Fe .....	≤10 ppm	Na .....	≤500 ppm
Identification .....	Positive	Water-insoluble matter .....	≤100 ppm	K .....	≤100 ppm	Pb .....	≤30 ppm
pH sol. 5% at 25° C .....	4.4 ÷ 6.0	Nitrate .....	≤20 ppm	Mg .....	≤50 ppm	Assay (complexometric) .....	99.0 ÷ 103.0 %
Ammonium .....	≤10 ppm	Ca .....	≤50 ppm	Mn .....	≤3 ppm		

Code	Size	Packaging	Notes
494905	100 g	Plastic bottle	
494906	500 g	Plastic bottle	
494907	1 kg	Plastic bottle	
494909	5 kg	Plastic jar	
494901	25 kg	Drum	

**Zinc sulfate heptahydrate > ERBApharm - According to pharmacopeia : Ph.Eur.-USP-FU-Ph.Franc.-BP****ERBApharm**

Description .....	White crystalline powder	Acidity .....	Conform USP-NF	Alkaline, alk. earth met .....	≤0.9 %	Pb .....	≤20 ppm
Identification .....	Positive	pH sol. 5% at 25° C .....	4.4 ÷ 5.6	As .....	≤14 ppm	Assay (complexometric) .....	99.0 ÷ 104.0 %
Appearance of solution .....	Conform Ph.Eur.	Chloride .....	≤300 ppm	Fe .....	≤100 ppm		

Code	Size	Packaging	Notes
394007	1 kg	Plastic bottle	
394009	5 kg	Plastic jar	
394001	25 kg	Plastic bucket	

**Zinc sulfate monohydrate**

Zinco sulfato monoidrato • Zinc sulfate monohydrate • Zinc sulfato monohidratado

ZnSO<sub>4</sub>·H<sub>2</sub>O  
Molecular Weight: 179,45  
CAS: 7446-19-7  
EEC-N: 231-793-3**Classification transport**  
ONU: 3077  
Transport Hazard class: 9  
Packing group III**Danger**  
H302-H318-H410  
P264-P273-P280i-P305+P351+P338-P330-P301+P312a**Zinc sulfate monohydrate > RPE - For analysis****RPE**

Description .....	White fine powder	pH sol. 5% at 25°C .....	4 ÷ 6	Pb .....	≤ 10 ppm	As .....	≤ 1 ppm
Identification .....	Positive	Chloride .....	≤ 1 %	Cu .....	≤ 5 ppm	Hg .....	≤ 0.1 ppm
Assay (Zn) .....	≥ 35 %	Mn .....	≤ 30 ppm	Cd .....	≤ 10 ppm		
Water (K.F.) .....	≤ 1 %	Fe .....	≤ 30 ppm	Ni .....	≤ 15 ppm		

Code	Size	Packaging	Notes
495005	250 g	Plastic bottle	
495007	1 kg	Plastic bottle	

**Zinc sulfate 0.1 mol/l (0.2N)**

Zinco sulfato 0.1 mol/l (0.2N) • Zinc sulfate 0.1 mol/l (0.2N) • Zinc sulfato 0.1 mol/l (0.2N)

ZnSO<sub>4</sub>·7H<sub>2</sub>O  
Molecular Weight: 287,54  
CAS: 7446-20-0**Classification transport**  
ONU: 3082  
Transport Hazard class: 9  
Packing group IIIH411  
P273-P391-P501a**Zinc sulfate 0.1 mol/l (0.2N) > RS - For analysis according to Ph. Eur. Chap. 4.2.2****RS**

Code	Size	Packaging	Notes
613008601	500 ml	Plastic bottle	Ref Ph.Eur 3008600
613008600	1 l	Plastic bottle	Ref Ph.Eur 3008600

## Zinc sulfate 0.1 mol/l (0.2N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Assay (potentiometry) ..... 0.1996 - 0.2004 N

Code	Size	Packaging	Notes
494921	1 l	Plastic bottle	



## Zinc sulfate 0.05 mol/l (0.05N)

Zinco solfato 0.05 mol/l (0.05N) • Zinc sulfate 0.05 mol/l (0.05N) • Zinc sulfato 0.05 mol/l (0.05N)

ZnSO<sub>4</sub>·7H<sub>2</sub>O  
 Molecular Weight: 287,54  
 CAS: 7446-20-0


**Warning**

 H319-H412  
 P264-P273-P280-P305+P351+P338-P337+P313-P501a

## Zinc sulfate 0.05 mol/l (0.05N) > RPE - For analysis

**RPE**

Description ..... Clear colourless liquid    Titration factor ..... 0.998 ÷ 1.002

Code	Size	Packaging	Notes
494931	1 l	Plastic bottle	



## Zinc sulfide

Zinco solfuro • Zinc sulfure • Zinc sulfuro

 Synonym:  
 Zinc sulphide

ZnS  
 Molecular Weight: 97,43  
 CAS: 1314-98-3  
 EEC-N: 215-251-3

HEU031

## Zinc sulfide > RPE - For analysis

**RPE**

 Description ..... White-green powder    Ammonium ..... ≤500 ppm    Heavy metals (Pb) ..... ≤20 ppm    Assay (complexometric) ..... ≥98 %  
 Identification ..... Positive    Chloride ..... ≤500 ppm    Fe ..... ≤50 ppm

Code	Size	Packaging	Notes
495105	250 g	Plastic bottle	
495107	1 kg	Plastic bottle	



## Zincon

Zincon • Zincon • Zincón

 Synonym:  
 Zincon monosodium salt  
 2-Carboxy-2'-hydroxy-5'-sulfoformazyl-benzene monosodium salt

C<sub>20</sub>H<sub>15</sub>N<sub>4</sub>O<sub>6</sub>SNa.H<sub>2</sub>O  
 Molecular Weight: 480,43  
 CAS: 62625-22-3  
 EEC-N: 263-651-1

## Zincon > RPE - For analysis

**RPE**

Description ..... Purple powder    Identification ..... Positive    Copper sensitivity ..... ~ 50 µg/ml    Zinc sensitivity ..... ~ 10 µg/ml

Code	Size	Packaging	Notes
495144	5 g	Glass bottle	

**For the spectrophotometric determination of Cu and Zn in animal tissues**


## Zirconium standard solution

Zirconio standard soluzione • Zirconium solution standard • Zirconio, solución patrón

## Zirconium standard solution > RS - For analysis according to Ph. Eur. Chap. 4.1.2

**RS**

Code	Size	Packaging	Notes
615003500	100 ml	Plastic bottle	A 1 g/l solution Ref Ph.Eur 5003500

## Zirconium standard solution &gt; RS - Standard solution for ICP-MS

RS

Code	Size	Packaging	Notes
505957	100 ml	Plastic bottle	conc. 10 ppm Matrix : Nitric acid and hydrofluoric acid
505958	100 ml	Plastic bottle	conc. 100 ppm Matrix : Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Zirconium standard solution &gt; RS - Standard solution for ICP

RS

Code	Size	Packaging	Notes
504091	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504095	100 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504093	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid
504097	500 ml	Plastic bottle	conc. 10.000 ppm Matrix : Hydrochloric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**

## Zirconium standard solution &gt; RS - Standard solution for AAS

RS

Code	Size	Packaging	Notes
507770	100 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid
507524	500 ml	Plastic bottle	conc. 1.000 ppm Matrix : Nitric acid and hydrofluoric acid

**Provided with a Certificate of analysis with references on the analytical method, the N.I.S.T. Standard Reference Materials and the confidence interval**



## Zirconium (IV) oxide

Zirconio ossido • Zirconium oxyde • Zirconio óxido

Synonym:  
Zirconia

ZrO<sub>2</sub>  
Molecular Weight: 123,22  
CAS: 1314-23-4  
EEC-N: 215-227-2

## Zirconium (IV) oxide &gt; RPE - For analysis

RPE

Description ..... Polvere bianca Chloride..... ≤100 ppm Assay (complexometric) ..... ≥99 %  
Identification ..... Positive Fe ..... ≤200 ppm

Code	Size	Packaging	Notes
495305	250 g	Glass bottle	



## Zirconyl nitrate

Zirconile nitrato • Zirconyle nitrate • Zirconio oxinitrato

Synonym:  
Zirconium(IV) oxynitrate hydrate

ZrO(NO<sub>3</sub>)<sub>2</sub>·nH<sub>2</sub>O  
Molecular Weight: 231,23 (an.)  
CAS: 14985-18-3  
EEC-N: 237-529-3

**Classification transport**  
ONU: 1477  
Transport Hazard class: 5.1  
Packing group II



**Danger**  
H272-H315-H319-H335  
P210-P221-P264-P271-P304+P340-  
P305+P351+P338

## Zirconyl nitrate &gt; RE - Pure

RE

Description ..... White powder Identification ..... Positive Hf ..... ≤ 4 % Assay (gravimetric) ..... ≥ 99.4 %

Code	Size	Packaging	Notes
396105	50 g	Glass bottle	



## Zirconyl nitrate

Zirconile nitrato • Zirconyle nitrate • Zirconio oxinitrato

Synonym:  
Zirconium(IV) oxynitrate hydrate

$ZrO(NO_3)_2 \cdot nH_2O$

Molecular Weight: 231,23 (an,)

CAS: 14985-18-3

EEC-N: 237-529-3

### Classification transport

ONU: 1477

Transport Hazard class: 5.1

Packing group II



### Danger

H272-H315-H319-H335

P210-P221-P264-P271-P304+P340-

P305+P351+P338

## Zirconyl nitrate > RE - Pure

RE

Description ..... White powder      Identification ..... Positive      Hf ..... ≤ 4 %      Assay (gravimetric) ..... ≥ 99.4 %

Code	Size	Packaging	Notes
396105	50 g	Glass bottle	

# CHEMICAL TABLES



# CARLO ERBA Reagents Labware Selection



- Full range of pH test papers
- Ausilab™ detergents and disinfectants for surfaces, manual and machine washing
- Idrimeter™ manual and instrumented water analysis kit



DASITGROUP

**CARLO ERBA**

REAGENTS

[www.carloerbareagents.com](http://www.carloerbareagents.com)



# PERIODIC TABLE OF THE ELEMENTS

Period	1	2	3	4	5	6	7	8	9	10	11	12
Group	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A	11A	12A
1	<b>H</b> Hydrogen 1, 1 1.00794											
2	<b>Li</b> Lithium 3, 1 6.941	<b>Be</b> Beryllium 4, 2 9.012182										
3	<b>Na</b> Sodium 11, 1 22.98977	<b>Mg</b> Magnesium 12, 2 24.3050										
4	<b>K</b> Potassium 19, 1 39.0983	<b>Ca</b> Calcium 20, 2 40.078	<b>Sc</b> Scandium 21, 3 44.95591	<b>Ti</b> Titanium 22, 4 47.867	<b>V</b> Vanadium 23, 5 50.9415	<b>Cr</b> Chromium 24, 6 51.9961	<b>Mn</b> Manganese 25, 7 54.93805	<b>Fe</b> Iron 26, 8 55.845	<b>Co</b> Cobalt 27, 9 58.9332	<b>Ni</b> Nickel 28, 10 58.6934	<b>Cu</b> Copper 29, 11 63.546	<b>Zn</b> Zinc 30, 12 65.39
5	<b>Rb</b> Rubidium 37, 1 85.4678	<b>Sr</b> Strontium 38, 2 87.62	<b>Y</b> Yttrium 39, 3 88.90585	<b>Zr</b> Zirconium 40, 4 91.224	<b>Nb</b> Niobium 41, 5 92.90638	<b>Mo</b> Molybdenum 42, 6 95.94	<b>Tc</b> Technetium 43, 7 98	<b>Ru</b> Ruthenium 44, 8 101.07	<b>Rh</b> Rhodium 45, 9 102.9055	<b>Pd</b> Palladium 46, 10 106.42	<b>Ag</b> Silver 47, 11 107.8682	<b>Cd</b> Cadmium 48, 12 112.411
6	<b>Cs</b> Cesium 55, 1 132.90545	<b>Ba</b> Barium 56, 2 137.327	<b>Lanthanides Series</b>		<b>Ta</b> Tantalum 73, 5 180.9479	<b>W</b> Tungsten 74, 6 183.84	<b>Re</b> Rhenium 75, 7 186.207	<b>Os</b> Osmium 76, 8 190.23	<b>Ir</b> Iridium 77, 9 192.2217	<b>Pt</b> Platinum 78, 10 195.078	<b>Au</b> Gold 79, 11 196.96654	<b>Hg</b> Mercury 80, 12 200.59
7	<b>Fr</b> Francium 87, 1 223	<b>Ra</b> Radium 88, 2 226	<b>Actinides Series</b>		<b>Pb</b> Lead 82, 12 207.2	<b>Bi</b> Bismuth 83, 15 208.98038	<b>Po</b> Polonium 84, 16 209	<b>At</b> Astatine 85, 17 210	<b>Rn</b> Radon 86, 18 222			

### Common Constants

Absolute Zero	-273.15 °C	Fine-structure constant	$\alpha$	0.0072973525
Atomic Mass Unit	1.66053904 × 10 <sup>-27</sup> kg	Gravitation Constant	G	6.67408 × 10 <sup>-11</sup> m <sup>3</sup> kg <sup>-1</sup> s <sup>-2</sup>
Average Constant	0.02171910 <sup>10</sup> mol <sup>-1</sup>	Molar Gas Constant	R	8.31451 J mol <sup>-1</sup> K <sup>-1</sup>
Bohr Magneton	9.2740100783 × 10 <sup>-24</sup> J T <sup>-1</sup>	Molar Volume (Ideal Gas)	V <sub>m</sub>	22.71095463980979
Bohrman constant	0.39088919 × 10 <sup>-10</sup> m	Planck Constant	h	6.6260701 × 10 <sup>-34</sup> Js
Electron Mass	9.10938356 × 10 <sup>-31</sup> kg	Proton-Electron Mass Ratio	m <sub>p</sub> /m <sub>e</sub>	1836.15267389
Electron Shell (Characteristic)	0	Speed of Light in a Vacuum	c	299.792.458 m/s
Electron Volt	1.602176634 × 10 <sup>-19</sup> J	Speed of Sound in Air at STP		343 m/s
Elementary Charge	e	Standard Pressure	P	101.325 Pa
Faraday Constant	F			

### Legend

1	1,00794	Atomic Weight	
<b>H</b>	Hydrogen	2,2	Electronegativity (Pauling)
1s <sup>1</sup>		1s <sup>1</sup>	Electron Configuration
+1,-1		+1,-1	Positive Oxid. States

### Phase at STP

- Gas
- Liquid
- Solid
- Synthetic

Period	1	2	3	4	5	6	7	8	9	10	11	12
Group	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A	11A	12A
13	<b>B</b> Boron 5, 3 10.811	<b>C</b> Carbon 6, 4 12.011	<b>N</b> Nitrogen 7, 5 14.00674	<b>O</b> Oxygen 8, 6 15.9994	<b>F</b> Fluorine 9, 7 18.9984032	<b>Ne</b> Neon 10, 8 20.1797						
14	<b>Al</b> Aluminum 13, 3 26.981539	<b>Si</b> Silicon 14, 4 28.0855	<b>P</b> Phosphorus 15, 5 30.973762	<b>S</b> Sulfur 16, 6 32.0646	<b>Cl</b> Chlorine 17, 7 35.4527	<b>Ar</b> Argon 18, 8 39.948						
15	<b>Ga</b> Gallium 31, 3 69.723	<b>Ge</b> Germanium 32, 4 72.61	<b>As</b> Arsenic 33, 5 74.9216	<b>Se</b> Selenium 34, 6 78.96	<b>Br</b> Bromine 35, 7 79.904	<b>Kr</b> Krypton 36, 8 83.80						
16	<b>In</b> Indium 49, 3 114.818	<b>Sn</b> Tin 50, 4 118.71	<b>Sb</b> Antimony 51, 5 121.76	<b>Te</b> Tellurium 52, 6 127.6	<b>I</b> Iodine 53, 7 126.90447	<b>Xe</b> Xenon 54, 8 131.293						
17	<b>Tl</b> Thallium 81, 3 204.3833	<b>Pb</b> Lead 82, 4 207.2	<b>Bi</b> Bismuth 83, 5 208.98038	<b>Po</b> Polonium 84, 6 209	<b>At</b> Astatine 85, 7 210	<b>Rn</b> Radon 86, 8 222						
18	<b>Fr</b> Francium 87, 1 223	<b>Ra</b> Radium 88, 2 226	<b>Lanthanides</b>		<b>Actinides</b>							

NOTES:  
 • Atomic Weight based on 12°C  
 • ( ) indicate mass number of most stable isotope  
 • Electron Config. based on IUPAC guidelines



# MEASUREMENTS AND SYMBOLS

Unit Name	Symbols	Dimension
Ångström	Å	Length
Becquerel	Bq	Activity
Calorie	cal	Heat quantity
Candela	cd	Luminous intensity
Kilogram	kg	Mass
Coulomb	C	Electric charge
Second	s	Time
Dyne	dyn	Force
Dyne per centimetre	dyn/cm	Surface tension
Erg	erg	Work, energy
Farad	F	Electric capacitance
Ampere	A	Electric current
Herz	Hz	Frequency
Joule	J	Energy, work
Metre	m	Length
Micron	$\mu$ o $\mu$ m	Length
Mole	mol	Amount of substance
Newton	N	Force
Pascal	Pa	Pressure
Poise	P o Po	Dynamic viscosity
Liter	L	Volume
Stokes	St	Kinematic viscosity
Kelvin	K	Temperature
Volt	V	Electric potential
Watt	W	Power

# DECIMAL UNIT MULTIPLES AND SUBMULTIPLES

## Multiples

Factor	Name	Decimal number	Prefix	Symbol
$10^{18}$	trillion	1 000 000 000 000 000 000	exa	E
$10^{15}$	–	1 000 000 000 000 000	penta	P
$10^{12}$	one thousand bilion	1 000 000 000 000	tera	T
$10^9$	bilion	1 000 000 000	giga	G
$10^6$	milion	1 000 000	mega	M
$10^3$	one thousand	1 000	kilo	k
$10^2$	one hundred	100	hecto	h
$10^1$	ten	10	deca	da
$10^0$	one	1	–	–

## Submultiples

Factor	Name	Decimal number	Prefix	Symbol
$10^0$	one	1	–	–
$10^{-1}$	one tenth	0,1	deci	d
$10^{-2}$	one hundredth	0,01	centi	c
$10^{-3}$	one thousandth	0,001	milli	m
$10^{-6}$	one milionth	0,000 001	micro	$\mu$
$10^{-9}$	one bilionth	0,000 000 001	nano	n
$10^{-12}$	one thousand bilionth	0,000 000 000 001	piko	p
$10^{-15}$	–	0,000 000 000 000 001	femto	f
$10^{-18}$	one trilionth	0,000 000 000 000 000 001	atto	a



# APHA COLOUR

APHA	Pt-Co ml	Water ml
10	1.0	49.0
20	2.0	48.0
30	3.0	47.0
40	4.0	46.0
60	6.0	44.0
80	8.0	42.0
100	10.0	40.0
150	15.0	35.0
200	20.0	30.0
300	30.0	20.0
400	40.0	10.0
500	50.0	-

The colour of the liquid (pure substance or solutions) might be conventionally expressed in APHA units (American Public Health Association).

The determination is carried out comparing the colour of the liquid with that of reference solution prepared under specific conditions. For the comparison, two identical 50 ml Nessler cylinders of transparent glass, containing equal volumes of the liquid and reference solution were used. This was prepared by diluting a certain amount of Platinum-Cobalt, so as to obtain the given APHA value according to the ratios given in the table below.

## Platinum-Cobalt (500 APHA)

Dissolve 1,246 g of Potassium chloroplatinate RPE and 1,000 g of Cobaltous chloride hexahydrate RPE in 200 ml of distilled water. Add 100 ml of hydrochloric acid 37% and dilute to 1000 ml with distilled water. This solution has a conventional colorimetric value of 500 APHA units.

# VISCOSITY - UNIT OF MEASURE

## International System (SI)

Shear stress $\tau$ .....	Pascal (Pa)=Newton/m <sup>2</sup> (N/m <sup>2</sup> )
Velocity gradient g.....	m/s
Dynamic viscosity h .....	Pascal x second (Pa·s)
.....	Millipascal x second (mPa·s)
Kinematic viscosity n.....	m <sup>2</sup> /s =104 Stokes
.....	mm <sup>2</sup> /s

## CGS System

Shear stress $\tau$ .....	dine/cm <sup>2</sup>
Velocity gradient g.....	cm/s
Dynamic viscosity h .....	Poise (P) = dine·s/cm <sup>2</sup> = 1 Pa
.....	Centipoise (cP)
Kinematic viscosity n.....	Stokes (St) = 0,1 Pa·s
.....	Centistokes (cSt) = 1 mPa·s

Tab. 1 - Distilled water – specific viscosity at different temperatures <sup>(1)</sup>

Temperature	cP (centipoise)	Viscosity
0°	0,0179	1,000
5°	0,0151	0,843
10°	0,0130	0,730
15°	0,0114	0,637
17,5°	0,0107	0,599
20°	0,0100	0,561
30°	0,0080	0,446
50°	0,0054	0,307
70°	0,0040	0,226
100°	0,0028	0,158

(1) From: Küster F.W. - Thiel A., Tabelle Logarithmiche, ed. Hoepli, 1965

Tab. 2 - Table of viscosity in increasing order (cP at 20° C)

Solvent	Viscosity (cP)	Solvent	Viscosity (cP)	Solvent	Viscosity (cP)
Pentane	0.23	Methanol	0.55	Water	1.00
Diethyl ether	0.23	Tetrahydrofuran	0.55	Hethanol absolute	1.20
Methyl-tert-butyl ether	0.27	Chloroform	0.57	Acetic acid glacial	1.29
Petroleum ether	0.30	Toluene	0.59	1,4 Dioxane	1.54
Hexane	0.31	Benzene	0.65	2-Methoxyethanol	1.72
Acetone	0.32	1,1,2-Tricloro 1,2,2-trifluoroethane	0.71	Dimethylsulfoxide	2.24
Acetonitrile	0.36	1,2 Dichloroethane	0.79	Propan-1-ol	2.26
Heptane	0.41	Dimethylformamide	0.85	Propan-2-ol	2.30
Dichlorometane	0.43	Tetrachloroethylene	0.93	Octan-1-ol	approx. 10.64
1-Chlorobutane	0.45	Pyridine	0.95		
Ethyl acetate	0.45	Carbon tetrachloride	0.97		
2,2,4 Trimethylpentane	0.51	Cyclohexane	1.00		

# DENSITY

## Ammonium hydroxide

d 15°C 4°C	°Bé	% NH <sub>3</sub>
1.000	10	-
0.992	11	1.61
0.986	12	3.30
0.979	13	4.80
0.972	14	6.55
0.966	15	8.33
0.959	16	9.91
0.953	17	11.60
0.947	18	13.31
0.941	19	15.04
0.935	20	17.12
0.929	21	18.64
0.923	22	20.08
0.917	23	22.39
0.912	24	24.34
0.906	25	26.31
0.900	26	27.99
0.895	27	29.69
0.889	28	31.75

## Hydrochloric acid

15°C d 4°C	°Bé	% m HCl
1.0069	1	1.56
1.014	2	2.99
1.021	3	4.55
1.028	4	5.99
1.036	5	7.56
1.043	6	9.14
1.050	7	10.59
1.058	8	12.17
1.066	9	13.61
1.074	10	15.16
1.082	11	16.70
1.090	12	18.30
1.098	13	20.00
1.106	14	21.60
1.115	15	23.05
1.124	16	24.79
1.133	17	26.55
1.142	18	28.15
1.151	19	29.95
1.160	20	32.10
1.169	21	33.65
1.179	22	35.40
1.189	23	37.25
1.199	24	39.10

## Nitric acid

d 15°C 4°C	°Bé	% m HNO <sub>3</sub>
1.0069	1	1,39
1.014	2	2,69
1.021	3	4,08
1.028	4	5,37
1.036	5	6,76
1.043	6	8,13
1.050	7	9,35
1.058	8	10,68
1.066	9	11,88
1.074	10	13,15
1.082	11	14,47
1.090	12	15,70
1.098	13	17,11
1.106	14	18,46
1.115	15	19,61
1.124	16	21,00
1.133	17	22,40
1.142	18	23,70
1.151	19	25,15

1.160	20	26,65
1.169	21	28,03
1.179	22	29,38
1.189	23	30,88
1.199	24	32,36
1.209	25	33,80
1.219	26	35,28
1.229	27	36,96
1.240	28	38,44
1.250	29	40,12
1.261	30	41,81
1.273	31	43,49
1.284	32	45,18
1.295	33	46,98
1.307	34	48,72
1.319	35	50,71
1.331	36	52,80
1.344	37	54,93
1.356	38	57,13
1.369	39	59,39
1.382	40	61,92
1.396	41	64,71
1.409	42	67,50
1.423	43	70,80
1.437	44	74,32
1.452	45	78,18
1.467	46	82,48
1.482	47	87,23
1.498	48	93,45
1.513	49	99,07

## Phosphoric acid

d 15°C 4°C	°Bé	% m H <sub>3</sub> PO <sub>4</sub>
1.0069	1	1.38
1.014	2	2.76
1.021	3	4.13
1.028	4	5.51
1.036	5	6.90
1.043	6	8.26
1.050	7	9.64
1.058	8	11.02
1.066	9	12.40
1.074	10	13.77
1.082	11	15.15
1.090	12	16.53
1.098	13	17.91
1.106	14	19.28
1.115	15	20.66
1.124	16	22.04
1.133	17	23.42
1.142	18	24.80
1.151	19	26.17
1.160	20	27.55
1.169	21	28.93
1.179	22	30.31
1.189	23	31.68
1.199	24	33.06
1.209	25	34.44
1.219	26	35.82
1.229	27	37.19
1.240	28	38.57
1.250	29	39.95
1.261	30	41.33
1.273	31	42.70
1.284	32	44.08
1.295	33	45.46
1.307	34	46.84
1.319	35	48.21
1.331	36	49.59
1.344	37	50.97

1.356	38	52.04
1.369	39	53.72
1.382	40	55.10
1.396	41	56.48
1.409	42	57.86
1.423	43	59.23
1.437	44	60.61
1.452	45	61.99
1.467	46	63.37
1.482	47	64.75
1.498	48	66.12
1.513	49	67.50
1.529	50	68.88
1.545	51	70.26
1.562	52	71.63
1.579	53	73.01
1.597	54	74.39
1.615	55	75.77
1.633	56	77.14
1.652	57	78.52
1.671	58	79.90
1.690	59	81.28
1.710	60	82.65
1.731	61	83.03
1.752	62	85.41
1.773	63	86.80
1.795	64	88.16
1.818	65	89.55
1.841	66	90.92

## Potassium hydroxide

d 15°C 4°C	°Bé	% m KOH
1.0069	1	0.9
1.014	2	1.7
1.021	3	2.6
1.028	4	3.5
1.036	5	4.5
1.043	6	5.5
1.050	7	6.4
1.058	8	7.4
1.066	9	8.3
1.074	10	9.2
1.082	11	10.1
1.090	12	11.0
1.098	13	12.0
1.106	14	12.9
1.115	15	13.8
1.124	16	14.8
1.133	17	15.7
1.142	18	16.6
1.151	19	17.6
1.160	20	18.6
1.169	21	19.5
1.179	22	20.5
1.189	23	21.4
1.199	24	22.4
1.209	25	23.3
1.219	26	24.2
1.229	27	25.1
1.240	28	26.1
1.250	29	27.0
1.261	30	28.0
1.273	31	28.9
1.284	32	29.8
1.295	33	30.7
1.307	34	31.7
1.319	35	32.7
1.331	36	33.7
1.344	37	34.9
1.356	38	35.9

1.369	39	36.9
1.382	40	37.9
1.396	41	38.9
1.409	42	39.9
1.423	43	40.9
1.437	44	42.1
1.452	45	43.4
1.467	46	44.6
1.482	47	45.8
1.498	48	47.1
1.513	49	48.3
1.529	50	49.4
1.545	51	50.6

#### Sodium hydroxide

d 15°C 4°C	°Bé	% m NaOH
1.0069	1	0.59
1.014	2	1.20
1.021	3	1.85
1.028	4	2.50
1.036	5	3.15
1.043	6	3.79
1.050	7	4.50
1.058	8	5.20
1.066	9	5.86
1.074	10	6.58
1.082	11	7.30
1.090	12	8.07
1.098	13	8.78
1.106	14	9.50
1.115	15	10.30
1.124	16	11.06
1.133	17	11.90
1.142	18	12.69
1.151	19	13.50
1.160	20	14.35
1.169	21	15.15
1.179	22	16.00
1.189	23	16.90
1.199	24	17.81
1.209	25	18.71
1.219	26	19.65
1.229	27	20.60
1.240	28	21.55
1.250	29	22.50
1.261	30	23.50
1.273	31	24.48
1.284	32	25.50

1.295	33	26.58
1.307	34	27.65
1.319	35	28.83
1.331	36	30.00
1.344	37	31.20
1.356	38	32.50
1.369	39	33.73
1.382	40	35.00
1.396	41	36.36
1.409	42	37.65
1.423	43	39.06
1.437	44	40.47
1.452	45	42.02
1.467	46	43.58
1.482	47	45.16
1.498	48	46.73
1.513	49	48.41
1.529	50	50.10

#### Sulphuric acid

d 15°C 4°C	°Bé	% m H <sub>2</sub> SO <sub>4</sub>
1.0069	1	1.20
1.014	2	2.20
1.021	3	3.35
1.028	4	4.40
1.036	5	5.54
1.043	6	6.67
1.050	7	7.67
1.058	8	8.77
1.066	9	9.78
1.074	10	10.90
1.082	11	12.06
1.090	12	13.13
1.098	13	14.35
1.106	14	15.48
1.115	15	16.49
1.124	16	17.66
1.133	17	18.85
1.142	18	19.93
1.151	19	21.17
1.160	20	22.45
1.169	21	23.60
1.179	22	24.76
1.189	23	26.04
1.199	24	27.32
1.209	25	28.58
1.219	26	29.84
1.229	27	31.23

1.240	28	32.40
1.250	29	33.66
1.261	30	34.90
1.273	31	36.17
1.284	32	37.45
1.295	33	38.84
1.307	34	40.12
1.319	35	41.50
1.331	36	42.98
1.344	37	44.28
1.356	38	45.62
1.369	39	46.94
1.382	40	48.35
1.396	41	49.85
1.409	42	51.15
1.423	43	52.51
1.437	44	53.91
1.452	45	55.34
1.467	46	56.74
1.482	47	58.13
1.498	48	59.54
1.513	49	61.12
1.529	50	62.53
1.545	51	64.05
1.562	52	65.50
1.579	53	66.95
1.597	54	68.41
1.615	55	70.00
1.633	56	71.70
1.652	57	73.18
1.671	58	74.80
1.690	59	76.50
1.710	60	78.04
1.731	61	80.02
1.752	62	81.83
1.773	63	84.00
1.795	64	86.30
1.818	65	90.05
1.841	66	95.69









































































































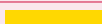
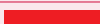


## POLARITY

Table of polarity in increasing order (p)

Solvent	Polarity (p)	Solvent	Polarity (p)	Solvent	Polarity (p)
Heptane	0.1	Diethyl ether	2.8	1,4 Dioxane	4.8
Hexane	0.1	Dichloromethane	3.1	Acetone	5.1
Petroleum ether	0.1	Octan-1-ol	3.4	Methanol	5.1
2,2,4 Trimethylpentane	0.1	1,2 Dichloroethane	3.5	Pyridine	5.3
Cyclohexane	0.2	Propan-1-ol	3.9	2-Methoxyethanol	5.5
1-Chlorobutane	1.0	Propan-2-ol	4.0	Acetonitrile	5.8
Carbon tetrachloride	1.6	Tetrahydrofuran	4.0	Acetic acid glacial	6.0
Toluene	2.4	Chloroform	4.1	Dimethylformamide	6.4
Metyl-tert butyle ether	2.5	Ethanol absolute	4.3	Dimethylsulfoxide	7.2
Benzene	2.7	Ethyl acetate	4.4	Water	10.2

# INDICATORS

Table of pH range and colour shades

Indicator	pH range	Acid	Basic
Malachite green	0.0-2.0	 yellow	 green-blue
Brilliant green	0.0-2.6	 yellow	 green
Eosin Y	0.0-3.0	 yellow	 green
Erythrosin B	0.0-3.6	 orange	 red
Methyl green	0.1-2.3	 yellow	 blue
Methyl violet	0.1-2.7	 yellow	 violet
Picric acid	0.2-1.0	 colourless	 yellow
Cresol red	0.2-1.8	 red	 yellow
Crystal violet	0.8-2.6	 yellow	 blue-violet
Thymol blue	1.2-2.8	 red	 yellow
Tropaeolin OO	1.3-3.2	 red	 yellow
Eosin B	1.4-2.4	 colourless	 rose
Quinaldine red	1.4-3.2	 colourless	 rose
2,4-Dinitrophenol	2.4-4.0	 colourless	 yellow
Methyl yellow	2.9-4.0	 red	 yellow
Bromophenol blue	3.0-4.6	 yellow	 blue-violet
Congo red	3.0-5.2	 blue	 yellow-orange
Methyl orange	3.1-4.4	 red	 orange
Alizarine sodium sulphonate	3.7-5.2	 yellow	 violet
a-Naphtil red	3.7-5.0	 red	 yellow
Bromocresol green	4.0-5.6	 yellow	 blue
2,5-Dinitrophenol	4.0-5.8	 colourless	 yellow
Alizarine red	4.3-6.3	 yellow	 violet
Methyl red	4.4-6.2	 red	 yellow
Chlorophenol red	4.8-6.4	 yellow	 red
Bromocresol purple	5.2-6.8	 yellow	 purple
p-Nitrophenol	5.4-7.5	 colourless	 yellow
Bromoxylenol blue	5.7-7.5	 yellow	 blue
Alizarine	5.8-7.2	 yellow	 red
Bromothymol blue	6.0-7.6	 yellow	 blue
Bromophenol blue	6.2-7.6	 yellow	 blue
Phenol red	6.4-8.2	 yellow	 red
3-Nitrophenol	6.6-8.6	 colourless	 yellow-orange
Neutral red	6.8-8.0	 red	 yellow
Rosolic acid	6.8-8.0	 yellow	 red
Cresol red	7.2-8.8	 yellow	 red
a-Naphtolphtalein	7.3-8.7	 rose	 green
Cresol purple	7.4-9.0	 yellow	 purple
Tropaeolin OOO	7.6-8.9	 yellow	 rose-red
Thymol blue	8.0-9.6	 yellow	 blue
Phenolphtalein	8.0-10.0	 colourless	 red
a-Naphtolbenzein	9.0-11.0	 yellow	 blue
Thymolphtalein	9.4-10.6	 colourless	 blue
Alkali blue 6B	9.4-14.0	 violet	 rose
Alizarin	10.0-12.0	 yellow	 purple
Nilo blue	10.1-11.1	 blue	 red
Diazoviolet	10.1-12.0	 yellow	 violet
Tropaeolin O	11.0-13.0	 yellow	 orange-brown
Nitramine	11.0-13.0	 colourless	 orange-brown
Poirrier blue	11.0-13.0	 blue	 violet-rose
Clayton's yellow O	12.0-13.0	 yellow	 red
Trinitrobenzoic acid	12.0-13.4	 colourless	 orange-red
Indigo carmine dried	11.5-13.0	 blue	 yellow
Epsilon blue	11.6-13.0	 orange	 violet

# COLOUR INDEX

Colour Index	Colour Index Name	Commercial Name	Synonyms Index
10316	Acid Yellow 1	Naphthol yellow S	Acid yellow S
11020	Solvent Yellow 1,2	Methyl yellow	
11270	Basic Orange 2	Chrysoidin Y	Brown salt R
12055	Solvent Yellow 14	Sudan yellow	Sudan I Sudan yellow R
12140	Solvent Orange 7	Sudan II	Sudan red Sudan Orange RR
13020	Acid Red 2	Methyl red	
13025	Acid Orange 52	Methyl orange	Orange III Helianthin
13065	Acid Yellow 36	Methanyl yellow	Tropaeolin G
13080	Acid Orange 5	Tropaeolin 00	Orange IV
14030	Mordant orange 1	Alizarin yellow R	Alizarin yellow G Orange R
14270	Acid Orange 6	Tropaeolin O	Tropeolina Y
14645	Mordant black 11	Heriochrome black T	Superchrome black T
15510	Acid Orange 7	Orange II	Tropaeolin 000
15705	Mordant black 17	Calcon	Palatine chrome black Eriochrome blue black B
16150	Acid red 26	Ponceau de Xilidine	Ponceau 2 R Brilliant Ponceau
16185	Acid Red 27	Amaranth	Naphthol red S, C o O Solid red O
16230	Acid Orange 10	Orange G	Orange GG
16570	Acid red 29	Chromotrope 2R	Acid phloxin GR
19140	Acid yellow 23	Tartrazine	Acid yellow T
19540	Direct yellow 9	Titan yellow	Thiazole yellow G Clayton yellow
20470	Acid Black 1	Naphthalene black 12 B	Naftol blue black Amido black 10B Pontacyl black blue SX
21010	Basic brown 4	Bismark Brown R	Vesuvine BL
22120	Direct red 28	Congo red	Cotton redB
23850	Direct blue 14	Trypan blue	Congo blue 3B
23860	Direct blue 53	Evans blue	Diazol pure blue Geigy blue 536 med
24890	Direct yellow 4	Brilliant yellow	Yellow paper
26050	Solvent red 19	Sudan red 7B	Fast red 7B
26100	Solvent red 23	Sudan III	
26105	Solvent red 24	Sudan IV	Scarlett R (Michaelis) Fat ponceau
26125	Solvent red 27	Oil red O	Sudan red 5B
26150	Solvent black 3	Sudan black B	Ceres black BN
26905	Acid red 66	Scarlett Biebrich	Imperial scarlett Brilliant ponceau S Ponceau red BS
27195	Acid red 112	Ponceau red S	Java scarlet
37025	Azoic Diazo No. 6	o-Nitroaniline	Orange GRS
37030		m-Nitroaniline	
37035	Azoic Diazo No. 37	p-Nitroaniline	Nitrazol CF Nitrosamine red
37235	Azoic diazo N. 48	Fast blue B salt	Dianisidine blue Diazo blue B salt Blue salt BNS
41000	Basic yellow 2	Auramine O	Pyoctanine yellow
42000	Basic green 4	Malachite green	Vittoria green B China green
42040	Basic green 1	Brilliant green	Aniline green Diamone green Emerald green
42045	Acid blu 1	Eriogalucine	Disulphine blue V Sulphon blue
42053	Food green 3	Fast green FCF	
42090	Acid Blue 9	Erioglaucine	Alphazurine FG
42095	Acid green 5	Light green SF	Acid green F Acid green G Lissamine green SF
42135	Acid blue 147	Xilencyanol FF	Cyanol FF
42510	Basic violet 14	Rosanilin	Fuchsin brilliant
		Basic fuchsin	Rosaniline hydrochloride Magenta I
42535	Basic violet 1	Gentian violet	Methyl violet 2R

Colour Index	Colour Index Name	Commercial Name	Synonyms Index
42535	Basic violet 1	Violetto Metile 2 B	
42555	Basic violet 3	Crystal violet	Methyl violet 6B
42556	Basic green	Iodine green	
42563	Basic blue 8	Vittoria blue 4R	Fast Blue 4R
42585	Basic blue 20	Methyl green	
42600	Basic violet 4	Ethyl violet	Ethyl purple 6B
42655	Acid blue 90	Brilliant Indocyanin G	Coomassie brilliant blue G250 Eriodin Cyanin brilliant G
42660	Acid blue 83	Brilliant Indocyanin 6 B	Coomassie brilliant blue R Brilliant acid cyanine 6B
42685	Acid violet 19	Acid fuchsin	Fuchsin S Rubin S Acid Magenta
42755	Acid blue 22	Aniline blue (water soluble)	China blue Cotton blue Blu di Hofman Opal blue Water blue I
42765	Acid blue 119	Alkali blue 6B	Reflex blue AG
42775	Solvent blue 3	Aniline blue (alcohol soluble)	Light blue Lyon's blue Paris blue Gentian blue
42780	Acid blue 93	Methyl blue	Helvetia blue Soluble blue 8B Poirier's blue C4B
43800		Rosolic acid sodiu salt	Aurine (water soluble) Corollin (water soluble)
43820	Mordant blue 3	Chromoxane canine R	Cyanin R Solochrome Eriochrome canine R
43825	Mordant blue 29	Cromoxane pure blue BLD	Cromeazurol S
45005	Basic dye	Pyronine G	Pyronine Y
45170	Basic violet 10	Rhodamine B	Rhodamine O Brilliant rhodamine B
45350	Acid yellow 73	Fluorescein sodium salt	Uranin
45380	Acid red 87	Eosin Y (yellowish)	Tetrabromofluoresceina sodica
45386	Solvent red 45	Ethyl Eosin (alcohol soluble)	Eosin S
45400	Acid red 91	Eosina B (blue shade)	Eosin scarlet
45410	Acid red 92 (soluble in acqua)	Phloxin B	Cyanosin Magdala red Tetrabromotetrachlorofluoroscein Sodium salt
45430	Acid red 51	Erythrosin B	Erythrosin J
45440	Acid red 94	Rose Bengal	
46005	Basic orange 14	Acridine orange	Euchrysin
49700		Indophenol	Indophenol blue
50040	Basic red 5	Neutral red	Toluylene red Neophospine
50240	Basic red 2	Safranine O	Cotton red
50420	Acid black 2	Nigrosine (water soluble)	Aniline blue black
51010	Basic dye	Brilliant cresyl blue	Cresyl blue BBS
51050	Mordant Blue 14	Celestine blue B	Coerin 2R
51180	Basic blue 12	Nilo blue A	Nilo blue BX
52000	Basic violet	Thionine acetate	Lauth's violet
52015	Basic blue 9	Methylene blue	
52040	Basic blue 17	Toluidine blue	
56085	Mordant dye	Murexide	
58000	Mordant red 11	Alizarin	
58005	Mordant red 3	Alizarin red S	
58500	Mordant violet-26	Quinizarin	Alizarin orange A Alizarina cianina 3R
60760	Pigment dyes	Nuclear fast red	Calcium red Kerneckrot Helio fast rubin BBL
61515	Solvent blue 19	Blu Oracet B	
73000	Vat blue 1	Indigo	Indigo blue
73015	Acid blue 74	Indigo carmine	Sodium indigo disulphonate
74240	Ingrain blue 1	Alcian blue 8GX	Alcian blue
75290	Natural black 1	Hematoxylin	Hematein
75300	Natural yellow 3	Curcumin	Curcuma
75470	Natural red 4	Acido carminico	Carminio Cocciniglia
75660	Natural Yellow 11	Morin	Fustic

# SOLUTIONS CHEMISTRY

## Freezing mixtures

Mixture	Solution concentration	Temperature °C
Ammonium chloride	solution 23 %	- 3° C
Potassium chloride	solution 20 %	- 12° C
Ammonium nitrate	solution 50 %	- 15° C
Sodium chloride	solution 25 %	- 21° C
Sodium nitrate	solution 33 %	- 24° C
Calcium chloride 6 H <sub>2</sub> O	solution 62 % - with ice	- 39° C
Calcium chloride 6 H <sub>2</sub> O	solution 59 % - with ice	- 55° C
Methanol or Acetone with dry ice		- 77° C

## Molarity and normality chart for common acid and base solutions

Acid	Molarity	Normality	Volume required for a liter	
			1 M solution	1 N solution
Acetic acid 99.5%	17,4 M	17,4 N	57,5 ml	57,5 ml
Ammonia sol. 25%	13,2 M	13,2 N	75,6 ml	75,6 ml
Ammonia sol. 35%	18,5 M	18,5 N	54,0 ml	54,0 ml
Hydrochloric acid 37%	11,6 M	11,6 N	85,8 ml	85,8 ml
Hydrochloric acid 32%	10,2 M	10,2 N	98,2 ml	98,2 ml
Hydrofluoric acid 40%	22,6 M	22,6 N	44,2 ml	44,2 ml
Nitric acid 70%	15,7 M	15,7 N	63,7 ml	63,7 ml
Phosphoric acid 85%	14,7 M	44,2 N	67,8 ml	22,6 ml
Sulphuric acid 96%	18,0 M	36,0 N	55,5 ml	27,8 ml

## Miscibility table

Xylene	Trichloroethylene	Toluene	Tetrahydrofurane	Pentane	Methyl-tert-butyl ether	Methyl-ethyl ketone	Isoctane	Ethyl Acetate	Hexane	Heptane	Dioxane	Dimethylsulfoxide	Dimethylformamide	Diethylether	Dichloromethane	1,2-Dichloroethane	Chloroform	Cyclohexane	Butyl Acetate	Benzene	n-propanol	n-butanol	Methanol	Isopropanol	Ethanol	Water	Acetonitrile	Acetone	Solvent	b.p. (°C)	UV (nm) cut off 1AU	d (g/ml) at 20°C	Refractive index at 20°C	Viscosity (cP) at 20°C
																													Acetone	56	330	0,786	1,359	0,32
																													Acetonitrile	82	190	0,786	1,344	0,37
																													Water	100	190	0,998	1,333	1,00
																													Ethanol	78	210	0,789	1,360	1,20
																													Isopropanol	82	205	0,785	1,377	2,30
																													Methanol	65	205	0,791	1,329	0,60
																													n-butanol	125	215	0,81	1,394	0,73
																													n-propanol	97	210	0,803	1,384	2,27
																													Benzene	80	280	0,879	1,501	0,65
																													Butyl Acetate	125	254	0,882	1,399	2,98
																													Cyclohexane	81	200	0,779	1,426	1,00
																													Chloroform	61	245	1,498	1,946	0,57
																													1,2-Dichloroethane	84	225	1,257	1,444	0,79
																													Dichloromethane	41	233	1,326	1,424	0,44
																													Diethylether	35	215	0,713	1,353	0,23
																													Dimethylformamide	155	268	0,944	1,431	0,85
																													Dimethylsulfoxide	189	268	1,092	1,478	2,24
																													Dioxane	101	215	1,033	1,422	1,54
																													Heptane	98	200	0,684	1,387	0,41
																													Hexane	69	195	0,655	1,375	0,31
																													Ethyl Acetate	77	256	0,894	1,372	0,45
																													Isoctane	99	215	0,692	1,392	0,51
																													Methyl-ethyl ketone	80	329	0,806	1,379	0,45
																													Methyl-tert-butyl ether	55	210	0,741	1,369	0,27
																													Pentane	36	190	0,626	1,358	0,23
																													Tetrahydrofurane	65	212	0,886	1,407	0,55
																													Toluene	111	284	0,867	1,496	0,59
																													Trichloroethylene	87	273	1,462	1,477	0,57
																													Xylene	139	288	0,861	1,500	0,61



# CONVERSION TABLES

## US and British measuring units and conversion factors

### Length

1 mil	=	25,4 µm
1 inch	=	2,54000 centimetres
1 foot	=	30,48006 centimetres
1 yard	=	0,91440 metres
1 mile	=	1609,34 metres
1 mile (nautical)	=	1853,25 metres
1 millimetre	=	0,03937 inches
1 centimetre	=	0,3937 inches
1 metre	=	39,37 inches
1 metre	=	3,2028 fouts
1 metre	=	1,09361 yards
1 kilometer	=	0,62136 miles
1 kilometer	=	0,53959 miles (nautical)

### Volume

1 cubic inch	=	16,38716 cubic centimetres
1 cubic foot	=	28,31625 cubic decimetres
1 cubic yard	=	0,76456 cubic metres
1 cubic centimetre	=	0,06102 cubic inches
1 cubic decimetre	=	0,03531 cubic fouts
1 cubic metre	=	1,30794 cubic yards

### Capacity

1 quart (USA liquid)	=	0,94633 liters
1 gallon (USA)	=	3,78533 liters
1 barrel (USA)	=	0,11562 cubic metres
1 quart (UK)	=	1,13650 litres
1 gallon (UK)	=	4,5596 litres
1 barrel (UK)	=	0,16366 cubic metres
1 litre	=	1,056681 quarts (USA)
1 litre	=	0,264177 gallons (USA)
1 litre	=	0,87990 quarts (UK)
1 litre	=	0,219976 gallons (UK)

### Weight (Mass)

1 grain	=	64,80 milligrams
1 dramma	=	1,772 grams
1 ounce (US)	=	28,3495 grams
1 pound	=	453,5924 grams
1 ton (short) (US)	=	907,18486 kilograms
1 ton (long) (UK)	=	1016,0470 kilograms
1 grams	=	15,4324 grains
1 gram	=	0,03527 ounces
1 kilogram	=	2,20462 pounds
1 metric ton.	=	1,10231 short tons (US)
1 metric ton	=	0,98420 long tons (UK)

## Concentrations

%	g/kg mg/g µg/mg	ppm mg/kg µg/g ng/mg	ppb µg/kg ng/g pg/mg	ppt ng/kg pg/g fg/mg	Potency	Proportion
1	10	10.000			1 x 10 <sup>-2</sup>	1: 100
0,5	5	5.000			5 x 10 <sup>-3</sup>	1: 500
0,1	1	1.000			1 x 10 <sup>-3</sup>	1: 1.000
0,05	0,5	500			5 x 10 <sup>-4</sup>	1: 5.000
0,01	0,1	100			1 x 10 <sup>-4</sup>	1: 10.000
0,005	0,05	50			5 x 10 <sup>-5</sup>	1: 50.000
0,001	0,01	10	10.000		1 x 10 <sup>-5</sup>	1: 100.000
0,000.5	0,005	5	5.000		5 x 10 <sup>-6</sup>	1: 500.000
0,000.1	0,001	1	1.000		1 x 10 <sup>-6</sup>	1: 1.000.000
0,000.05	0,0005	0,5	500		5 x 10 <sup>-7</sup>	1: 5.000.000
0,000.01	0,000.1	0,1	100		1 x 10 <sup>-7</sup>	1: 10.000.000
0,000.001	0,000.01	0,01	10	10.000	1 x 10 <sup>-8</sup>	1: 100.000.000
0,000.0001	0,000.001	0,001	1	1.000	1 x 10 <sup>-9</sup>	1: 1.000.000.000
			0,1	100	1 x 10 <sup>-10</sup>	1: 10.000.000.000
			0,01	10	1 x 10 <sup>-11</sup>	1: 100.000.000.000
			0,001	1	1 x 10 <sup>-12</sup>	1: 1.000.000.000.000

## Transmittance vs Absorbance unit

% T	A.U.	% T	A.U.	% T	A.U.	% T	A.U.	% T	A.U.	% T	A.U.
0.5	2.301	17.5	0.757	34.5	0.462	51.5	0.288	68.5	0.164	85.5	0.068
1.0	2.000	18.0	0.745	35.0	0.456	52.0	0.284	69.0	0.161	86.0	0.066
1.5	1.824	18.5	0.733	35.5	0.450	52.5	0.280	69.5	0.158	86.5	0.063
2.0	1.699	19.0	0.721	36.0	0.444	53.0	0.276	70.0	0.155	87.0	0.060
2.5	1.620	19.5	0.710	36.5	0.438	53.5	0.271	70.5	0.152	87.5	0.058
3.0	1.523	20.0	0.699	37.0	0.432	54.0	0.268	71.0	0.149	88.0	0.056
3.5	1.469	20.5	0.688	37.5	0.426	54.5	0.263	71.5	0.146	88.5	0.053
4.0	1.398	21.0	0.678	38.0	0.420	55.0	0.260	72.0	0.143	89.0	0.051
4.5	1.347	21.5	0.667	38.5	0.414	55.5	0.256	72.5	0.140	89.5	0.048
5.0	1.301	22.0	0.658	39.0	0.409	56.0	0.252	73.0	0.137	90.0	0.046
5.5	1.260	22.5	0.647	39.5	0.403	56.5	0.248	73.5	0.134	90.5	0.043
6.0	1.222	23.0	0.638	40.0	0.398	57.0	0.244	74.0	0.131	91.0	0.041
6.5	1.187	23.5	0.628	40.5	0.392	57.5	0.240	74.5	0.128	91.5	0.039
7.0	1.155	24.0	0.620	41.0	0.387	58.0	0.237	75.0	0.125	92.0	0.036
7.5	1.125	24.5	0.611	41.5	0.382	58.5	0.233	75.5	0.122	92.5	0.034
8.0	1.097	25.0	0.602	42.0	0.377	59.0	0.229	76.0	0.119	93.0	0.032
8.5	1.071	25.5	0.593	42.5	0.372	59.5	0.225	76.5	0.116	93.5	0.030
9.0	1.046	26.0	0.585	43.0	0.367	60.0	0.222	77.0	0.114	94.0	0.027
9.5	1.022	26.5	0.577	43.5	0.361	60.5	0.218	77.5	0.111	94.5	0.025
10.0	1.000	27.0	0.569	44.0	0.357	61.0	0.215	78.0	0.108	95.0	0.022
10.5	0.979	27.5	0.561	44.5	0.351	61.5	0.211	78.5	0.105	95.5	0.020
11.0	0.959	28.0	0.553	45.0	0.347	62.0	0.208	79.0	0.102	96.0	0.018
11.5	0.943	28.5	0.545	45.5	0.342	62.5	0.204	79.5	0.099	96.5	0.015
12.0	0.921	29.0	0.538	46.0	0.337	63.0	0.201	80.0	0.097	97.0	0.013
12.5	0.903	29.5	0.530	46.5	0.332	63.5	0.197	80.5	0.094	97.5	0.011
13.0	0.886	30.0	0.523	47.0	0.327	64.0	0.194	81.0	0.092	98.0	0.009
13.5	0.870	30.5	0.516	47.5	0.323	64.5	0.190	81.5	0.089	98.5	0.006
14.0	0.854	31.0	0.509	48.0	0.319	65.0	0.187	82.0	0.086	99.0	0.004
14.5	0.838	31.5	0.502	48.5	0.314	65.5	0.184	82.5	0.083	99.5	0.002
15.0	0.824	32.0	0.495	49.0	0.310	66.0	0.180	83.0	0.081	100.0	0.000
15.5	0.810	32.5	0.488	49.5	0.305	66.5	0.177	83.5	0.078		
16.0	0.796	33.0	0.482	50.0	0.301	67.0	0.174	84.0	0.076		
16.5	0.782	33.5	0.475	50.5	0.297	67.5	0.171	84.5	0.073		
17.0	0.770	34.0	0.469	51.0	0.292	68.0	0.168	85.0	0.071		

## Baumé vs specific gravity

Conversion rules at a temperature of 60°F:

For liquids more dense than water:

$$\text{s.g.} = \frac{145}{145 - \text{degrees Baumé}}$$

For liquids less dense than water:

$$\text{s.g.} = \frac{140}{130 + \text{degrees Baumé}}$$

°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity	°Be	Specific gravity
103,33	0,60	36,67	0,84	10,74	1,08	34,73	1,32	51,45	1,55	63,77	1,79
101,40	0,61	35,68	0,85	11,36	1,09	35,15	1,32	51,75	1,56	63,99	1,79
99,51	0,61	34,71	0,85	11,97	1,09	35,57	1,33	52,05	1,56	64,22	1,80
97,64	0,62	33,74	0,86	12,58	1,10	35,98	1,33	52,35	1,57	64,44	1,80
95,81	0,62	32,79	0,86	13,18	1,10	36,39	1,34	52,64	1,57	64,67	1,81
94,00	0,63	31,85	0,87	13,78	1,11	36,79	1,34	52,94	1,58	64,89	1,81
92,22	0,63	30,92	0,87	14,37	1,11	37,19	1,35	53,23	1,58	65,11	1,82
90,47	0,64	30,00	0,88	14,96	1,12	37,59	1,35	53,52	1,59	65,33	1,82
88,75	0,64	29,09	0,88	15,54	1,12	37,99	1,36	53,81	1,59	65,55	1,83
87,05	0,65	28,19	0,89	16,11	1,13	38,38	1,36	54,09	1,60	65,77	1,83
85,38	0,65	27,30	0,89	16,68	1,13	38,77	1,37	54,38	1,60	65,98	1,84
83,74	0,66	26,42	0,90	17,25	1,14	39,16	1,37	54,66	1,61	66,20	1,84
82,12	0,66	25,56	0,90	17,81	1,14	39,55	1,38	54,94	1,61	66,41	1,85
80,53	0,67	24,70	0,91	18,36	1,15	39,93	1,38	55,22	1,62	66,62	1,85
78,96	0,67	23,85	0,91	18,91	1,15	40,31	1,39	55,49	1,62	66,83	1,86
77,41	0,68	23,01	0,92	19,46	1,16	40,68	1,39	55,77	1,63	67,04	1,86
75,88	0,68	22,17	0,92	20,00	1,16	41,06	1,40	56,04	1,63	67,25	1,87
74,38	0,69	21,35	0,93	20,54	1,17	41,43	1,40	56,31	1,64	67,46	1,87
72,90	0,69	20,54	0,93	21,07	1,17	41,80	1,41	56,59	1,64	67,67	1,88
71,44	0,70	19,73	0,94	21,60	1,18	42,16	1,41	56,85	1,65	67,87	1,88
70,00	0,70	18,94	0,94	22,12	1,18	42,53	1,42	57,12	1,65	68,08	1,89
68,58	0,71	18,15	0,95	22,64	1,19	42,89	1,42	57,39	1,66	68,28	1,89
67,18	0,71	17,37	0,95	23,15	1,19	43,25	1,43	57,65	1,66	68,48	1,90
65,80	0,72	16,60	0,96	23,66	1,20	43,60	1,43	57,91	1,67	68,68	1,90
64,44	0,72	15,83	0,96	24,17	1,20	43,95	1,44	58,17	1,67	68,88	1,91
63,10	0,73	15,08	0,97	24,67	1,21	44,31	1,44	58,43	1,68	69,08	1,91
61,78	0,73	14,33	0,97	25,17	1,21	44,65	1,45	58,69	1,68	69,28	1,92
60,48	0,74	13,59	0,98	25,66	1,22	45,00	1,45	58,95	1,69	69,48	1,92
59,19	0,74	12,86	0,98	26,15	1,22	45,34	1,46	59,20	1,69	69,68	1,93
57,92	0,75	12,13	0,99	26,63	1,23	45,68	1,46	59,45	1,70	69,87	1,93
56,67	0,75	11,41	0,99	27,11	1,23	46,02	1,47	59,71	1,70	70,06	1,94
55,43	0,76	10,70	1,00	27,59	1,24	46,36	1,47	59,96	1,71	70,26	1,94
54,21	0,76	0,72	1,01	28,06	1,24	46,69	1,48	60,20	1,71	70,45	1,95
53,01	0,77	1,44	1,01	28,53	1,25	47,03	1,48	60,45	1,72	70,64	1,95
51,82	0,77	2,14	1,02	29,00	1,25	47,36	1,49	60,70	1,72	70,83	1,96
50,65	0,78	2,84	1,02	29,46	1,26	47,68	1,49	60,94	1,73	71,02	1,96
49,49	0,78	3,54	1,03	29,92	1,26	48,01	1,50	61,18	1,73	71,21	1,97
48,34	0,79	4,22	1,03	30,38	1,27	48,33	1,50	61,43	1,74	71,40	1,97
47,22	0,79	4,90	1,04	30,83	1,27	48,65	1,51	61,67	1,74	71,58	1,98
46,10	0,80	5,58	1,04	31,27	1,28	48,97	1,51	61,91	1,75	71,77	1,98
43,91	0,81	6,24	1,05	31,72	1,28	49,29	1,52	62,14	1,75	71,95	1,99
42,84	0,81	6,90	1,05	32,16	1,29	49,61	1,52	62,38	1,76	72,14	1,99
41,78	0,82	7,56	1,06	32,60	1,29	49,92	1,53	62,61	1,76	72,32	2,00
40,73	0,82	8,21	1,06	33,03	1,30	50,23	1,53	62,85	1,77	72,50	2,00
39,70	0,83	8,85	1,07	33,46	1,30	50,54	1,54	63,08	1,77		
38,67	0,83	9,49	1,07	33,89	1,31	50,84	1,54	63,31	1,78		
37,66	0,84	10,12	1,08	34,31	1,31	51,15	1,55	63,54	1,78		

## Normality and Molarity chart for common volumetric solutions

Volumetric solution	Normality	Molarity	Volumetric solution	Normality	Molarity
Acetic acid	0.01 N	0.01 M	Potassium hydroxide	1 N	1 M
Acetic acid	0.1 N	0.1 M	Potassium iodate	0.01 N	0.00167 M
Ammonium thiocyanate	0.01 N	0.01 M	Potassium iodate	0.1 N	0.0167 M
Ammonium thiocyanate	0.1 N	0.1 M	Potassium permanganate	0.01 N	0.002 M
Bromine	0.1 N	0.05 M	Potassium permanganate	0.1 N	0.02 M
Cerium (IV) sulphate	0.1 N	0.1 M	Potassium permanganate	1 N	0.2 M
Hydrochloric acid	0.01 N	0.01 M	Potassium thiocyanate	0.1 N	0.1 M
Hydrochloric acid	0.1 N	0.1 M	Silver nitrate	0.01 N	0.01 M
Hydrochloric acid	0.5 N	0.5 M	Silver nitrate	0.1 N	0.1 M
Hydrochloric acid	1 N	1 M	Silver nitrate	1 N	1 M
Hydrochloric acid	2 N	2 M	Sodium arsenite	0.1 N	0.05 M
Iodine	0.01 N	0.005 M	Sodium carbonate	0.1 N	0.05 M
Iodine	0.1 N	0.05 M	Sodium carbonate	1 N	0.5 M
Iodine	1 N	0.5 M	Sodium chloride	0.1 N	0.1 M
Litium methoxide	0.1 N	0.1 M	Sodium hydroxide	0.01 N	0.01 M
Mercuric perchlorate	0.01 N	0.01 N	Sodium hydroxide	0.1 N	0.1 M
Nitric acid	0.1 N	0.1 M	Sodium hydroxide	0.25 N	0.25 M
Nitric acid	1 N	1 M	Sodium hydroxide	1/2.82 N	1/2.82 M (0.357 mol/l)
Oxalic acid	0.01 N	0.005 M	Sodium hydroxide	0.5 N	0.5 M
Oxalic acid	0.1 N	0.05 M	Sodium hydroxide	1 N	1 M
Oxalic acid	1 N	0.5 M	Sodium hydroxide	2 N	2 M
Perchloric acid	0.01 N	0.01 M	Sodium thiosulphate	0.01 N	0.01 M
Perchloric acid	0.1 N	0.1 M	Sodium thiosulphate	0.1 N	0.1 M
Potassium bromate	0.1 N	0.0167 M	Sodium thiosulphate	1 N	1 M
Potassium dichromate	0.1 N	0.0167 M	Sulphuric acid	0.01 N	0.005 M
Potassium hydr. phtalate	0.1 N	0.1 M	Sulphuric acid	0.1 N	0.05 M
Potassium hydroxide	0.1 N	0.1 M	Sulphuric acid	0.5 N	0.25 M
Potassium hydroxide	0.25 N	0.25 M	Sulphuric acid	1 N	0.5 M
Potassium hydroxide	0.5 N	0.5 M	Sulphuric acid	2 N	1 M

## Mesh size conversion table

Mesh size	Micron size approximate	Millimeters approximate	Inches
4	4760	4,760	0,185
6	3360	3,360	0,131
8	2380	2,380	0,093
12	1680	1,680	0,065
16	1190	1,190	0,046
20	840	0,840	0,0328
30	590	0,590	0,0232
40	420	0,420	0,0164
50	297	0,297	0,0116
60	250	0,250	0,0097
70	210	0,210	0,0082
80	177	0,177	0,0069
100	149	0,149	0,0058
140	105	0,105	0,0041
200	74	0,074	0,0029
230	62	0,062	0,0024
270	53	0,053	0,0021
325	44	0,044	0,0017
400	37	0,037	0,0015
625	20	0,020	0,0008
1250	10	0,010	0,0004
2500	5	0,005	0,0002

# SAFETY IN THE LABORATORY

## Alterable chemical products

The expiration date of all of our reagents is printed on both the label and the certificate of analysis. It applies to products stored in their original and intact packaging and away from heat and light as specified in the safety data sheet.

Once that an alterable product has been opened, the final user should determine the expiry date of the product basis on a risk analysis that includes the following parameters:

- Systematic risk
- Chemical risk
- Utilisation risk

Our range of products includes some alterable chemical products that, due to their own chemical properties, may be subject to an alteration during the time.

We indicate here below with some abbreviations the most common types of alteration found on our alterable products.

- A: Alterable molecule
- C: Colour change
- D: Deliquescent
- F: Interaction with the content
- ID: Hydrolisable
- IG: Hygroscopic
- M: Formation of an insoluble precipitation
- O: Oxidation
- P: Polymerisation

Products	Alterability	Products	Alterability	Products	Alterability
Diethylene Glycol dimethylether	O	Iodine trichloride	F	Salicylaldehyde	O-C
Diethylene Glycol monobutylether	O	Karl Fisher reagent	IG	Silver diethylcarbamate	C
Diethylene Glycol monoethylether	O	Lutidine (2,4)	C	Soda lime	A
Diethylether not stabilized	O	Magnesium perchlorate	IG	Sodium acetate anhydrous	IG
Diethylsulfate	ID-C	Magnesium peroxide	A	Sodium citrate tribasic anhydrous	IG
Dihydroxyacetone	ID-D	Methyl isobutylacetone	C	Sodium cyanide solution	A
Dimethylaminonaphthalene-5-sulfonyl chloride	ID	Methyldichloroacetate	ID	Sodium hydrate and hypochloride solution	A-O
Dimethylsulfate	ID-C	mono-Ethanolamine	C	Sodium hydrosulfite	O
Diphenylamine	C	n,n-Diethylaniline	C	Sodium hypochloride solution	A-O
Diphenyldithiocarbazide	O-C	n,n-Dimethylphenylenediamine	C	Sodium metabisulfite	O
Ergometrine maleate	A	n-Ethyl piperidine	C	Sodium methylate	ID
Ergometrine tartrate	A	Nitric acid fuming 90%	F	Sodium sulfide nonahydrate	C-IG
Ethyl formate	ID	n-Methylaniline	C	Starch solution 1%	M
Ethyl-5-methylpyridine-2	C	Orthophosphoric acid 99%	O	Strontium iodide	C
Ethylaniline	C	Orthophosphoric acid 99%	IG	Styrene	P
Ethylchloroacetate	O	p-Dimethylaminobenzaldehyde	C	Succinic anhydride	ID
Ethylene Glycol dimethylether	O	Phenol	C	Sulfuric acid 96%	C
Ethylene Glycol monoethylether	O	Phosphomolybdic acid	C	Sulphurous acid saturated solution	O
Ethylene Glycol monoethylether acetate	O	Phosphorous pentachloride	F	sym-Diphenylcarbazine	C
Ethylene Glycol monomethylether	O	Phosphorus pentoxide	IG	Sym-Tetrabromoethane	A
Formaldehyde 40% w/v	O-P	Picoline	C	Sym-Tetrachloroethane	A
Formic acid 99%	O	Piperidine	C	Tetrahydrofurfuryl alcohol	C-D
Furan	C-O	Piruvic acid	P	Tin chloride anhydrous	A
Furfural	C	Potassium ethyl xantogenate	ID	Titanium trichloride 15%	M
Furfuryl alcohol	C	Potassium metabisulfite	O	Trichloroacetic acid solution 20%	A
Gaiacol	C	p-Oxalate	C	Triphenylchloromethane	F
Hanus's reagent	A	p-phenetidin	C	Vitamin A acetate	A
Heptanal	O	Propionaldehyde	O	Vitamin A palmitate	A
Hydrazine hydroxyde	A	Propionitrile	C	Water chlorine saturated solution	A
Hydrazine solution	A	Protonaldehyde	C-O	Zinc oxide	IG
Hydrogen peroxide	A	p-Toluidine	C		
Hydrogen sulfide saturated solution	O-M	Pyridine hydrochloride	IG		
Hydroquinone monomethylether	O	Pyrrole	C		
		Pyrrolidine	C		

## Incompatible chemical products

ACETIC ACID	Nitric acid Perchloric acid Alcohols Chromium oxide Ethylen glycol Permanganates Peroxides	CHROMIUM OXIDE	Acetic acid Alcohols Petroleum ether Canphor Glycerol Flammable liquids Naphthalin
HYDROFLUORIC ACID	Ammonia	PHOSPHORUS	Oxygenated combinations Sulphur
NITRIC ACID CONCENTRATED	Acetic acid Hydrocyanic acid Aniline Chromium oxide Hydrogen sulphide Flammable liquids and gasses	HYDROCARBONS	Bromine Chlorine Chromium oxide Fluorine Sodium peroxide
OXALIC ACID	Silver Mercury	IODINE	Acetylene Ammonia
PERCHLORIC ACID	Alcohols Acetic anhydride Bismuth and its alloys Paper Wood	FLAMMABLE LIQUIDS	Nitric acid Halogens Ammonium nitrate Chromium oxide Hydrogen peroxide Sodium peroxide
SULPHURIC ACID	Potassium chlorate Potassium perchlorate Potassium permanganate	MERCURY	Acetylene Ammonia
AMMONIA	Hydrofluoric acid Bromine Chlorine Iodine Calcium hypochlorite Mercury	ALKALY METALS	Water Halogens Carbon dioxide Carbon tetrachloride other Halogenated alkanes
AMMONIUM NITRATE	Acids Chlorates Flammable liquids Nitrates Metallic powders Flammable organic substances Sulphur	HYDROGEN PEROXIDE	Acetone Alcohols Aniline Chromium Copper Iridium Metals and metallic salts Nitromethane Organic substances Flammable substances
ANILINE	Nitric acid Hydrogen peroxide	POTASSIUM PERMANGANATE	Sulphuric acid Benzaldehyde Ethylen glycol Glycerol
SILVER	Acetylene Oxalic acid Tartaric acid Ammonium salts	COPPER	Acetylene Hydrogen peroxide
BROMINE AND CHLORINE	Acetylene Ammonia Benzene Petroleum ether Butadiene Butane Hydrogen Methane Propane Metallic powders	SODIUM PEROXIDE	Acetic acid Ethyl alcohol Methyl alcohol Acetic anhydride Benzaldehyde Ethyl acetate Ethylen glycol Furfural Carbon disulfide
CYANIDES	Acids		
CHLORATES	Acidi Metallic powders Ammonium salts Flammable organic substances Sulphur		

# HAZARD STATEMENTS

<b>H200</b>	Unstable explosives.
<b>H201</b>	Explosive; mass explosion hazard.
<b>H202</b>	Explosive, severe projection hazard.
<b>H203</b>	Explosive; fire, blast or projection hazard.
<b>H204</b>	Fire or projection hazard.
<b>H205</b>	May mass explode in fire.
<b>H220</b>	Extremely flammable gas.
<b>H221</b>	Flammable gas.
<b>H222</b>	Extremely flammable aerosol.
<b>H223</b>	Flammable aerosol.
<b>H224</b>	Extremely flammable liquid and vapour.
<b>H225</b>	Highly flammable liquid and vapour.
<b>H226</b>	Flammable liquid and vapour.
<b>H228</b>	Flammable solid.
<b>H240</b>	Heating may cause an explosion.
<b>H241</b>	Heating may cause a fire or explosion.
<b>H242</b>	Heating may cause a fire.
<b>H250</b>	Catches fire spontaneously if exposed to air.
<b>H251</b>	Self-heating; may catch fire.
<b>H252</b>	Self-heating in large quantities; may catch fire.
<b>H260</b>	In contact with water releases flammable gases which may ignite spontaneously.
<b>H261</b>	In contact with water releases flammable gases.
<b>H270</b>	May cause or intensify fire; oxidiser.
<b>H271</b>	May cause fire or explosion; strong oxidiser.
<b>H272</b>	May intensify fire; oxidiser.
<b>H280</b>	Contains gas under pressure; may explode if heated.
<b>H281</b>	Contains refrigerated gas; may cause cryogenic burns or injury.
<b>H290</b>	May be corrosive to metals.
<b>H300</b>	Fatal if swallowed.
<b>H301</b>	Toxic if swallowed.
<b>H302</b>	Harmful if swallowed.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H310</b>	Fatal in contact with skin.
<b>H311</b>	Toxic in contact with skin.
<b>H312</b>	Harmful in contact with skin.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H330</b>	Fatal if inhaled.
<b>H331</b>	Toxic if inhaled.
<b>H332</b>	Harmful if inhaled.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H340</b>	May cause genetic defects.
<b>H341</b>	Suspected of causing genetic defects.
<b>H350</b>	May cause cancer.
<b>H351</b>	Suspected of causing cancer.
<b>H360</b>	May damage fertility or the unborn child.
<b>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H362</b>	May cause harm to breast-fed children.
<b>H370</b>	Causes damage to organs.
<b>H371</b>	May cause damage to organs.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure exposure cause the hazard.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure exposure cause the hazard.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H413</b>	May cause long lasting harmful effects to aquatic life.

# PRECAUTIONARY STATEMENTS

<b>P101</b>	If medical advice is needed, have product container or label at hand.
<b>P102</b>	Keep out of reach of children.
<b>P103</b>	Read label before use.
<b>P201</b>	Obtain special instructions before use.
<b>P202</b>	Do not handle until all safety precautions have been read and understood.
<b>P210</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
<b>P211</b>	Do not spray on an open flame or other ignition source.
<b>P220</b>	Keep/Store away from clothing/... /combustible materials.
<b>P221</b>	Take any precaution to avoid mixing with combustibles...
<b>P222</b>	Do not allow contact with air.
<b>P223</b>	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
<b>P230</b>	Keep wetted with...
<b>P231</b>	Handle under inert gas.
<b>P232</b>	Protect from moisture.
<b>P231+P232</b>	Handle under inert gas. Protect from moisture.
<b>P233</b>	Keep container tightly closed.
<b>P234</b>	Keep only in original container.
<b>P235</b>	Keep cool.
<b>P235+P410</b>	Keep cool. Protect from sunlight.
<b>P240</b>	Ground/bond container and receiving equipment.
<b>P241</b>	Use explosion-proof electrical/ventilating/lighting/.../equipment.
<b>P242</b>	Use only non-sparking tools.
<b>P243</b>	Take precautionary measures against static discharge.
<b>P244</b>	Keep reduction valves free from grease and oil.
<b>P250</b>	Do not subject to grinding/shock/.../friction.
<b>P251</b>	Pressurized container: Do not pierce or burn, even after use.
<b>P260</b>	Do not breathe dust/fume/gas/mist/vapours/spray.
<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapours/spray.
<b>P262</b>	Do not get in eyes, on skin, or on clothing.
<b>P263</b>	Avoid contact during pregnancy/while nursing.
<b>P264</b>	Wash ... thoroughly after handling.
<b>P270</b>	Do no eat, drink or smoke when using this product.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace.
<b>P273</b>	Avoid release to the environment.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.
<b>P281</b>	Use personal protective equipment as required.
<b>P282</b>	Wear cold insulating gloves/face shield/eye protection.
<b>P283</b>	Wear fire/flame resistant/retardant clothing.
<b>P284</b>	Wear respiratory protection.
<b>P285</b>	In case of inadequate ventilation wear respiratory protection.
<b>P301</b>	IF SWALLOWED.
<b>P301+P310</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
<b>P301+P312</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
<b>P301+P330+P331</b>	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
<b>P302</b>	IF ON SKIN.
<b>P302+P334</b>	IF ON SKIN: Gently wash with plenty of soap and water.
<b>P302+P350</b>	IF ON SKIN: Wash with plenty of soap and water.
<b>P302+P352</b>	IF ON SKIN: Immerse in cool water/wrap in wet bandages.
<b>P303</b>	IF ON SKIN (or hair).
<b>P303+P361+P353</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
<b>P304</b>	IF INHALED.
<b>P304+P340</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P304+P341</b>	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P305</b>	IF IN EYES.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P306</b>	IF ON CLOTHING.
<b>P306+P360</b>	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
<b>P307</b>	IF exposed
<b>P307+P311</b>	IF exposed: Call a POISON CENTER or doctor/physician.



<b>P308</b>	IF exposed or concerned.
<b>P308+P313</b>	IF exposed or concerned: Get medical advice/attention.
<b>P309</b>	IF exposed or if you feel unwell.
<b>P309+P311</b>	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
<b>P310</b>	Immediately call a POISON CENTER or doctor/physician.
<b>P311</b>	Call a POISON CENTER or doctor/physician.
<b>P312</b>	Call a POISON CENTER or doctor/physician if you feel unwell.
<b>P313</b>	Get medical advice/attention.
<b>P314</b>	Get medical advice/attention if you feel unwell.
<b>P315</b>	Get immediate medical advice/attention.
<b>P320</b>	Specific treatment is urgent (see... on this label).
<b>P321</b>	Specific treatment (see ... on this label).
<b>P322</b>	Specific measures (see... on this label).
<b>P330</b>	Rinse mouth.
<b>P331</b>	Do NOT induce vomiting.
<b>P332</b>	If skin irritation occurs.
<b>P332+P313</b>	If skin irritation occurs: Get medical advice/attention.
<b>P333</b>	If skin irritation or rash occurs.
<b>P333+P313</b>	If skin irritation or rash occurs: Get medical advice/attention.
<b>P334</b>	Immerse in cool water/wrap in wet bandages.
<b>P335</b>	Brush off loose particles from skin.
<b>P335+P334</b>	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
<b>P336</b>	Thaw frosted parts with lukewarm water. Do no rub affected area.
<b>P337</b>	If eye irritation persists.
<b>P337+P313</b>	If eye irritation persists: Get medical advice/attention.
<b>P338</b>	Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P340</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P341</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P342</b>	If experiencing respiratory symptoms.
<b>P342+P311</b>	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
<b>P350</b>	Gently wash with plenty of soap and water.
<b>P351</b>	Rinse cautiously with water for several minutes.
<b>P352</b>	Wash with plenty of soap and water.
<b>P353</b>	Rinse skin with water/shower.
<b>P360</b>	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
<b>P361</b>	Remove/Take off immediately all contaminated clothing.
<b>P362</b>	Take off contaminated clothing and wash before reuse.
<b>P363</b>	Wash contaminated clothing before reuse.
<b>P370</b>	In case of fire.
<b>P370+P376</b>	In case of fire: Stop leak if safe to do so.
<b>P370+P378</b>	In case of fire: Use ... for extinction.
<b>P370+P380</b>	In case of fire: Evacuate area.
<b>P370+P380+P375</b>	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
<b>P371</b>	In case of major fire and large quantities.
<b>P371+P380+P375</b>	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
<b>P372</b>	Explosion risk in case of fire.
<b>P373</b>	DO NOT fight fire when fire reaches explosives.
<b>P374</b>	Fight fire with normal precautions from a reasonable distance.
<b>P375</b>	Fight fire remotely due to the risk of explosion.
<b>P376</b>	Stop leak if safe to do so.
<b>P377</b>	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
<b>P378</b>	Use ... for extinction.
<b>P380</b>	Evacuate area.
<b>P381</b>	Eliminate all ignition sources if safe to do so.
<b>P390</b>	Absorb spillage to prevent material damage.
<b>P391</b>	Collect spillage.
<b>P401</b>	Store ...
<b>P402</b>	Store in a dry place.
<b>P402+P404</b>	Store in a dry place. Store in a closed container.
<b>P403</b>	Store in a well-ventilated place.
<b>P403+P233</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>P403+P235</b>	Store in a well-ventilated place. Keep cool.
<b>P404</b>	Store in a closed container.
<b>P405</b>	Store locked up.

<b>P406</b>	Store in corrosive resistant/... container with a resistant inner liner.
<b>P407</b>	Maintain air gap between stacks/pallets.
<b>P410</b>	Protect from sunlight.
<b>P410+P412</b>	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
<b>P411</b>	Store at temperatures not exceeding ... °C.
<b>P411+P235</b>	Store at temperatures not exceeding ... °C.
<b>P412</b>	Do not expose to temperatures exceeding 50 °C/122 °F.
<b>P413</b>	Store bulk masses greater than ... kg.
<b>P420</b>	Store away from other materials.
<b>P422</b>	Store contents under ...
<b>P501</b>	Dispose of contents/container to ...

## ADDITIONAL STATEMENTS

<b>EUH 001</b>	Explosive when dry.
<b>EUH 006</b>	Explosive with or without contact with air.
<b>EUH 014</b>	Reacts violently with water.
<b>EUH 018</b>	In use, may form flammable/explosive vapour-air mixture.
<b>EUH 019</b>	May form explosive peroxides.
<b>EUH 029</b>	Contact with water liberates toxic gas .
<b>EUH 031</b>	Contact with acids liberates toxic gas.
<b>EUH 032</b>	Contact with acids liberates very toxic gas.
<b>EUH 044</b>	Risk of explosion if heated under confinement.
<b>EUH 059</b>	Hazardous to the ozone layer.
<b>EUH 066</b>	Repeated exposure may cause skin dryness or cracking.
<b>EUH 070</b>	Toxic by eye contact.
<b>EUH 071</b>	Corrosive to the respiratory tract.
<b>EUH 201</b>	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
<b>EUH 201A</b>	Warning! Contains lead.
<b>EUH 202</b>	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
<b>EUH 203</b>	Contains chromium (VI). May produce an allergic reaction.
<b>EUH 204</b>	Contains isocyanates. May produce an allergic reaction.
<b>EUH 205</b>	Contains epoxy constituents. May produce an allergic reaction.
<b>EUH 206</b>	Warning! Do not use together with other products. May release dangerous gases (chlorine).
<b>EUH 207</b>	Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.
<b>EUH 208</b>	Contains (name of sensitising substance). May produce an allergic reaction.
<b>EUH 209</b>	Can become highly flammable in use.
<b>EUH 209A</b>	Can become flammable in use.
<b>EUH 201</b>	Safety data sheet available on request.
<b>EUH 401</b>	To avoid risks to human health and the environment, comply with the instructions for use.

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# ERBApharm®

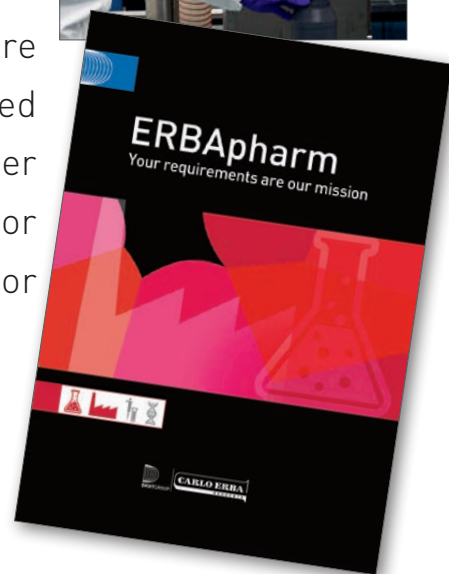
Your requirements  
are our mission



ERBApharm is the range of products developed by CARLO ERBA Reagents for the pharmaceutical market:

- Starting Material, Intermediates, Reagents for API
- Bulk Pharmaceutical Excipients
- Pharmaceutical Solutions

Our production facilities in France are IPEC 2006 compliant and are declared to the French authorities (ANSM) under the regulation Decree N°2008-109 for the production of raw materials for pharmaceutical use.



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370753	Sodium metabisulfite	640	385709	Titanium dioxide	706	401041	Acetone	127
371802	Sodium nitrate	642	385751	Titanium dioxide	706	401042	Acetone	127
371804	Sodium nitrate	642	385752	Titanium dioxide	706	401051	Acetone	127
371809	Sodium nitrate	642	385753	Titanium dioxide	706	401052	Acetone	127
371901	Sodium nitrite	642	386001	Toluene	709	401054	Acetone	127
371902	Sodium nitrite	642	386002	Toluene	709	401055	Acetone	127
371903	Sodium nitrite	642	386003	Toluene	709	401058	Acetone	127
372109	Sodium nitrite	642	386009	Toluene	709	401183000	Acetonitrile	131
372201	Sodium oxalate	644	386301	Triethanolamine	714	401185000	Acetonitrile	131
372203	Sodium oxalate	644	386303	Triethanolamine	714	401212	Acetonitrile	131
373603	Sodium salicylate	650	386304	Triethanolamine	714	401216	Acetonitrile	131
373607	Sodium salicylate	650	386305	Triethanolamine	714	401241	Acetonitrile	131
373608	Sodium salicylate	650	386601	Triethylamine	714	401242	Acetonitrile	131
373902	Sodium silicate	650	386602	Triethylamine	714	401361	Acetic acid glacial	118
373908	Sodium silicate	650	386603	Triethylamine	714	401391	Acetic acid glacial	120
373909	Sodium silicate	650	387207	Trimethylcetylammonium p-toluenesulfonate	718	401392	Acetic acid glacial	120
375713	Sodium sulfate anhydrous	652	387503	Paraformaldehyde	511	401396	Acetic acid glacial	120
375716	Sodium sulfate anhydrous	652	387507	Paraformaldehyde	511	401397	Acetic acid glacial	120
376002	Sodium sulfite anhydrous	653	387801	Urea	724	401405	Acetic acid glacial	119
376003	Sodium sulfite anhydrous	653	387807	Urea	724	401406	Acetic acid glacial	119
376004	Sodium sulfite anhydrous	653	387809	Urea	724	401407	Acetic acid glacial	119
376006	Sodium sulfite anhydrous	653	388104	Vanillin	726	401411	Acetic acid glacial	118
376008	Sodium sulfite anhydrous	653	388107	Vanillin	726	401412	Acetic acid glacial	118
376009	Sodium sulfite anhydrous	653	388108	Vanillin	726	401413	Acetic acid glacial	118
377901	Sodium thiosulfate pentahydrate	656	388407	Paraffin white soft	511	401414	Acetic acid glacial	118
377907	Sodium thiosulfate pentahydrate	656	388409	Paraffin white soft	511	401421	Acetic acid glacial	120
377909	Sodium thiosulfate pentahydrate	656	388607	Paraffin white soft	511	401422	Acetic acid glacial	120
378202	Sodium thiosulfate pentahydrate	656	388609	Paraffin white soft	511	401424	Acetic acid glacial	120
378204	Sodium thiosulfate pentahydrate	656	388701	Gentian violet	346	401425	Acetic acid glacial	120
378207	Sodium thiosulfate pentahydrate	656	388703	Gentian violet	346	401431	Acetic acid glacial	118
			389511	Riboflavine	589	401432	Acetic acid glacial	118
			389901	Pyridoxine dipalmitate	581	401433	Acetic acid glacial	118
			391804	p-Aminobenzoic acid	145	401435	Acetic acid glacial	119
			391805	p-Aminobenzoic acid	145	401455	Acetic acid glacial	119
			392304	Nicotinamide	488	401462	Acetic acid glacial	119
			392307	Nicotinamide	488	401463	Acetic acid glacial	119
			392602	Xylene, mix of isomers	732	401531	Acetic acid 12%	123
			392603	Xylene, mix of isomers	732	401561	Acetic acid 0.1 mol/l (0.1N)	124
			392605	Xylene, mix of isomers	732	401785	Adipic acid	135
			392608	Xylene, mix of isomers	732	401787	Adipic acid	135
			392631	D(+)-Xylose	734	402032	1-Amino-2-naphthol-4-sulfonic acid	145
			392635	D(+)-Xylose	734	402132	Anisic acid	168
						402133	Anisic acid	168
						402381	Sodium arsenite 0.05 mol/l (0.1N)	613

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402764	Boric acid	193
402765	Boric acid	193
402766	Boric acid	193
402767	Boric acid	193
402922	Hydrobromic acid 48%	370
402925	Hydrobromic acid 48%	370
403236	n-Butyric acid	218
403272	Isobutyric acid	410
403308	Calconcarbonic acid	232
403421	n-Caprylic acid	234
403473	n-Caproic acid	233
403721	Citric acid monohydrate	255
403722	Citric acid monohydrate	255
403724	Citric acid monohydrate	255
403725	Citric acid monohydrate	255
403727	Citric acid monohydrate	255
403821	Chloranilic acid	243
403822	Chloranilic acid	243
403871	Hydrochloric acid 37%	371
403872	Hydrochloric acid 37%	371
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403971	Hydrochloric acid 37%	370
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403981	Hydrochloric acid 32%	373
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403986	Hydrochloric acid 32%	373
403988	Hydrochloric acid 32%	373
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404036	Hydrochloric acid 8%	375
404061000	Hydrochloric acid 2 mol/l (2N)	378
404062000	Hydrochloric acid 2 mol/l (2N)	378
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404111	Hydrochloric acid 1 mol/l (1N)	379
404141000	Hydrochloric acid 0.5 mol/l (0.5N)	380
404142000	Hydrochloric acid 0.5 mol/l (0.5N)	380
404147000	Hydrochloric acid 0.5 mol/l (0.5N)	380
404161	Hydrochloric acid 0.5 mol/l (0.5N)	380
404191000	Hydrochloric acid 0.1 mol/l (0.1N)	381
404192000	Hydrochloric acid 0.1 mol/l (0.1N)	381
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404211	Hydrochloric acid 0.1 mol/l (0.1N)	381
404251	Hydrochloric acid 0.01 mol/l (0.01N)	383
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404872	Chromotropic acid disodium salt	254
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405144	Sodium diethylthiocarbamate trihydrate	622
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405351	Dodecylbenzenesulphonic acid sodium salt	305
405352	Dodecylbenzenesulphonic acid sodium salt	305
405421	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
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405442000	Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	326
405443000	Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l (0.02N)	326
405451	Heptafluorobutyric acid	357
405462	Ethylenediaminetetraacetic acid	323
405463	Ethylenediaminetetraacetic acid	323
405465	Ethylenediaminetetraacetic acid	323
405482	Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate	327
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405497	Ethylenediaminetetraacetic acid disodium salt	324
405501000	Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)	325
405502000	Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l (0.1N)	325
405511000	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
405512000	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
405513000	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
405514000	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
405521	Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid	328
405522	Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid	328
405531	Ethylenediaminetetraacetic acid dipotassium salt dihydrate	324
405541	Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate	326
405597	Phenylacetic acid	526
405598	Phenylacetic acid	526
405611	Hydrofluoric acid 47-51%	385
405621	1-Hexanesulphonic acid sodium salt	365
405622	1-Hexanesulphonic acid sodium salt	365
405631	1-Butanesulfonic acid sodium salt	212
405632	1-Butanesulfonic acid sodium salt	212
405653	Hydrofluoric acid 50%	384
405716	Hydrofluoric acid 47-51%	385
405722	Hydrofluoric acid 50%	385
405728	Hydrofluoric acid 50%	385
405737	Hydrofluoric acid 50%	384
405761	Hydrofluoric acid 39.5%	386
405765	Hydrofluoric acid 39.5%	386
405792	Formic acid 99%	341
405793	Formic acid 99%	341
405794	Formic acid 99%	341
405821	Formic acid 99%	340
405822	Formic acid 99%	340
405823	Formic acid 99%	340
405824	Formic acid 99%	340
405832	Formic acid 85%	341
405833	Formic acid 85%	341
405835	Formic acid 85%	341
405841	1-Pentanesulphonic acid sodium salt	514
405842	1-Pentanesulphonic acid sodium salt	514
405851	1-Heptanesulphonic acid sodium salt	359
405852	1-Heptanesulphonic acid sodium salt	359
405861	1-Octanesulphonic acid sodium salt	501
405862	1-Octanesulphonic acid sodium salt	501
405863	1-Octanesulphonic acid sodium salt	501
405871	1-Decanesulfonic acid sodium salt	273
405872	1-Decanesulfonic acid sodium salt	273
405881	1-Dodecanesulfonic acid sodium salt	304
405882	1-Dodecanesulfonic acid sodium salt	304
405891	1-Pentanesulphonic acid sodium salt monohydrate	514
405892	1-Pentanesulphonic acid sodium salt monohydrate	514
405901	1-Propanesulfonic acid sodium salt	577
405902	1-Propanesulfonic acid sodium salt	577
405913	Phosphomolybdic acid	530
405915	Phosphomolybdic acid	530

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405921	1-Hexanesulphonic acid sodium salt monohydrate	366	408176000	Nitric acid 1 mol/l (1N)	496	410577000	Sulfuric acid 0.5 mol/l (1N)	681
405922	1-Hexanesulphonic acid sodium salt monohydrate	366	408185000	Nitric acid 2 mol/l (2N)	496	410591	Sulfuric acid 0.5 mol/l (1N)	681
405931	1-Octanesulfonic acid sodium salt monohydrate	501	408191	Nitric acid 18%	495	410634	Sulfuric acid 0.33 mol/l (2N/3)	682
405932	1-Octanesulfonic acid sodium salt monohydrate	501	408206000	Nitric acid 0.1 mol/l (0.1N)	496	410662000	Sulfuric acid 0.25 mol/l (0.5N)	682
405941	Dodecyltrimethylammonium bromide	305	408231	Nitric acid 0.1 mol/l (0.1N)	496	410663000	Sulfuric acid 0.25 mol/l (0.5N)	682
405942	Dodecyltrimethylammonium bromide	305	408242	Nitrilotriacetic acid	497	410667000	Sulfuric acid 0.25 mol/l (0.5N)	682
405961	Orthophosphoric acid 99%	503	408414	m-Nitrobenzoic acid	498	410681	Sulfuric acid 0.25 mol/l (0.5N)	682
405967	Orthophosphoric acid 99%	503	408687	Osmium (VIII) oxide	505	410711000	Sulfuric acid 0.05 mol/l (0.1N)	683
405971	Tetrabutylammonium bisulfate	691	408731	Oxalic acid dihydrate	506	410712000	Sulfuric acid 0.05 mol/l (0.1N)	683
405972	Tetrabutylammonium bisulfate	691	408733	Oxalic acid dihydrate	506	410713000	Sulfuric acid 0.05 mol/l (0.1N)	683
406002	Orthophosphoric acid 85%	503	408736	Oxalic acid dihydrate	506	410714000	Sulfuric acid 0.05 mol/l (0.1N)	683
406003	Orthophosphoric acid 85%	503	408737	Oxalic acid dihydrate	506	410717000	Sulfuric acid 0.05 mol/l (0.1N)	683
406005	Orthophosphoric acid 85%	503	408826	Oxalic acid 0.5 mol/l (1N)	506	410731	Sulfuric acid 0.05 mol/l (0.1N)	684
406021	Orthophosphoric acid 85%	503	408856	Oxalic acid 0.05 mol/l (0.1N)	506	410791	Sulfuric acid 0.005 mol/l (0.01N)	685
406022	Orthophosphoric acid 85%	503	408871	Oxalic acid 0.05 mol/l (0.1N)	507	410894	Sulfosalicylic acid	674
406053	Phosphonic acid	530	408901	Oxalic acid 0.005 mol/l (0.01N)	507	410896	Sulfosalicylic acid	674
406056	Phosphonic acid	530	409062	1-Pentanesulphonic acid sodium salt	514	411023	Succinic acid	670
406154	Phosphotungstic acid	532	409064	1-Pentanesulphonic acid sodium salt	514	411025	Succinic acid	670
406205	Phthalic acid	533	409111	Perchloric acid 65%	515	411027	Succinic acid	670
406284	Fumaric acid	343	409113	Perchloric acid 65%	515	411074	Tannic acid	687
406287	Fumaric acid	343	409121	Perchloric acid 65%	515	411076	Tannic acid	687
406335	Gallic acid monohydrate	345	409131	Perchloric acid 0.1 mol/l (0.1N) in acetic acid	516	411077	Tannic acid	687
406336	Gallic acid monohydrate	345	409136	Perchloric acid 0.1 mol/l (0.1N) in acetic acid	516	411121	L(+) Tartaric Acid	688
406434	Glycolic acid	351	409182	Periodic acid	517	411125	L(+) Tartaric Acid	688
406485	L(+)-Glutamic acid	349	409184	Periodic acid	517	411127	L(+) Tartaric Acid	688
406831	Hydriodic acid 57%	369	409185	Periodic acid	517	411271	2-Thiobarbituric acid	697
406833	Hydriodic acid 57%	369	409193	Perchloric acid 65-71%	515	411272	2-Thiobarbituric acid	697
406961	Hypophosphorous acid 50%	390	409302	Picric acid solution	533	411385	Thioglycolic acid 80%	698
406962	Hypophosphorous acid 50%	390	409305	Picric acid solution	533	411432	p-Toluenesulfonic acid	710
406964	Hypophosphorous acid 50%	390	409435	Pyrogallol	582	411436	p-Toluenesulfonic acid	710
407012	Hippuric acid	366	409437	Pyrogallol	582	411504	p-Toluenesulfonic acid sodium salt	710
407261	Maleic acid	445	409471	Pyrrolidine dithiocarbamic acid ammonium salt	583	411524	Trichloroacetic acid	712
407263	Maleic acid	445	409551	Propionic acid	578	411525	Trichloroacetic acid	712
407266	Maleic acid	445	409553	Propionic acid	578	411527	Trichloroacetic acid	712
407314	DL-Malic acid	445	409702	Rosolic acid	590	411541	Trifluoroacetic acid	715
407316	DL-Malic acid	445	409773	Salicylic acid	592	411542	Trifluoroacetic acid	715
407363	Malonic acid	445	409777	Salicylic acid	592	411543	Trifluoroacetic acid	715
407365	Malonic acid	445	409875	Sebacic acid	595	411554000	Trichloroacetic acid solution 20%	713
407431	L(+)-Mandelic acid	446	409964	Selenous acid	597	411561	Trifluoroacetic acid	715
407441	alpha-Methoxyphenylacetic acid	461	410051	Silicotungstic acid	601	411564	Trifluoroacetic acid	715
407465	Metaphosphoric acid	454	410054	Silicotungstic acid	601	411621	Tungstic acid	723
407467	Metaphosphoric acid	454	410104	Sulfamic acid	672	411628	Tungstic acid	723
407481	Methanesulfonic acid	454	410105	Sulfamic acid	672	411775	n-Valeric acid	725
407483	Methanesulfonic acid	454	410106	Sulfamic acid	672	411981	Water chlorine	730
407914	Nicotinic acid	489	410154	Sulfanilic acid	673	412011	Water	728
407951	Nitric acid 65%	494	410156	Sulfanilic acid	673	412041	Acetonitrile	129
407952	Nitric acid 65%	494	410261	Sulfuric acid 96%	676	412042	Acetonitrile	129
408021	Nitric acid 65%	494	410301	Sulfuric acid 96%	677	412051	Hydrogen peroxide solution 30-32%	387
408022	Nitric acid 65%	494	410302	Sulfuric acid 96%	677	412071	Hydrogen peroxide solution 30%	388
408025	Nitric acid 65%	494	410303	Sulfuric acid 96%	677	412072	Hydrogen peroxide solution 30%	388
408027	Nitric acid 65%	494	410306	Sulfuric acid 96%	677	412074	Hydrogen peroxide solution 30%	388
408051	Nitric acid 67-69%	493	410307	Sulfuric acid 96%	677	412076	Hydrogen peroxide solution 30%	388
408071	Nitric acid 69.5%	492	410351	Sulfuric acid 93-98%	678	412077	Hydrogen peroxide solution 30%	388
408072	Nitric acid 69.5%	492	410371	Sulfuric acid 96%	676	412081	Hydrogen peroxide solution 30%	388
408075	Nitric acid 69.5%	492	410374	Sulfuric acid 96%	676	412091	Water	728
408076	Nitric acid 69.5%	492	410381	Sulfuric acid 96%	676	412092	Water	728
408097	Nitric acid 69.5%	491	410382	Sulfuric acid 96%	676	412102	Hydrogen peroxide solution 30%	388
408098	Nitric acid 69.5%	491	410391	Sulfuric acid 90%	678	412111	Water	728
408101	Nitric acid 65%	494	410394	Sulfuric acid 90%	678	412112	Water	728
408102	Nitric acid 65%	494	410405	Sulfuric acid 93-98%	678	412121	Water + 0.1% v/v formic acid	730
408103	Nitric acid 65%	494	410406	Sulfuric acid 93-98%	678	412122	Water + 0.1% v/v formic acid	730
408115	Nitric acid 67-70%	492	410407	Sulfuric acid 93-98%	678	412141	Water	728
408116	Nitric acid 67-70%	492	410421	Sulfuric acid 98%	675	412142	Water	728
408117	Nitric acid 67-70%	492	410511000	Sulfuric acid 20%	680	412151	Water	729
408133	Nitric acid fuming 90%	491	410516	Sulfuric acid 20%	680			
408151	Nitric acid 69.5%	492	410547000	Sulfuric acid 1 mol/l (2N)	681			
408152	Nitric acid 69.5%	492	410548000	Sulfuric acid 1 mol/l (2N)	681			
408171000	Nitric acid 1 mol/l (1N)	496	410571000	Sulfuric acid 0.5 mol/l (1N)	681			
			410572000	Sulfuric acid 0.5 mol/l (1N)	681			
			410575000	Sulfuric acid 0.5 mol/l (1N)	681			

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412161	Hydrogen peroxide solution 30%	387	412672	Diethyl ether	289	414633	Ethanol 96°	314
412162	Hydrogen peroxide solution 30%	387	412681	2-Methyltetrahydrofuran	470	414634	Ethanol 96°	314
412163	Hydrogen peroxide solution 30%	387	412682	2-Methyltetrahydrofuran	470	4146342	Ethanol 96°	314
412185	Water	729	412691	n-Hexane 99%	361	414635	Ethanol 96°	314
412194	Acquovitrex-Erba	170	412692	n-Hexane 99%	361	414637	Ethanol 96°	314
412321	Acetonitrile + 0.1% v/v trifluoroacetic acid	132	412701	Ethanol absolute anhydrous	311	4146372	Ethanol 96°	314
412322	Acetonitrile + 0.1% v/v trifluoroacetic acid	132	4127012	Ethanol absolute anhydrous	311	414638	Ethanol 96°	314
412331	Acetonitrile + 0.1% v/v formic acid	132	412702	Ethanol absolute anhydrous	311	414639	Ethanol 96°	314
412332	Acetonitrile + 0.1% v/v formic acid	132	4127022	Ethanol absolute anhydrous	311	414667	Ethanol 96°	314
412341	Acetonitrile	129	412703	Ethanol absolute anhydrous	311	4146672	Ethanol 96°	314
412342	Acetonitrile	129	4127032	Ethanol absolute anhydrous	311	414677	Ethanol absolute anhydrous	311
412371000	Acetonitrile	130	412711000	Propan-2-ol	573	4146772	Ethanol absolute anhydrous	311
412372000	Acetonitrile	130	412712000	Propan-2-ol	573	414692	Ethanol absolute anhydrous	312
412374	Acetonitrile	130	412721	Methanol	455	414813	Methanol	458
412381	Methanol	455	412722	Methanol	455	414814	Methanol	458
412383	Methanol	455	412724	Methanol	455	414815	Methanol	458
412391000	Acetonitrile	130	412725	Methanol	455	414816	Methanol	458
412392000	Acetonitrile	130	412821	Propan-2-ol	574	414817	Methanol	458
412393	Acetonitrile	130	413603	β-Alanine	137	414818	Methanol	458
412395	Acetonitrile	130	413654	Albumin from eggs, dried	135	414819	Methanol	458
412407	Acetonitrile	130	413656	Albumin from eggs, dried	135	414821	Methanol	457
412409	Acetonitrile	130	413671	Albumin from eggs powder	135	414822	Methanol	457
412411000	Acetonitrile	130	413672	Albumin from eggs powder	135	414831	Methanol	455
412412000	Acetonitrile	130	413783	n-Amyl alcohol	166	414832	Methanol	455
412421000	Propan-2-ol	574	413801	Isoamyl alcohol	408	414854	Methanol	458
412422000	Propan-2-ol	574	413832	Isoamyl alcohol	408	414855	Methanol	458
412431000	Cyclohexane	269	413833	Isoamyl alcohol	408	414861	Methanol + 0.1% v/v formic acid	459
412432000	Cyclohexane	269	413836	Isoamyl alcohol	408	414862	Methanol + 0.1% v/v formic acid	459
412441000	Isooctane	411	413892	Isoamyl alcohol	408	414871	Methanol + 0.1% v/v trifluoroacetic acid	459
412442000	Isooctane	411	413941	tert-Amyl alcohol	166	414872	Methanol + 0.1% v/v trifluoroacetic acid	459
412451000	Tetrahydrofuran	693	413944	tert-Amyl alcohol	166	414881	Methanol	457
412452000	Tetrahydrofuran	693	413945	tert-Amyl alcohol	166	414883	Methanol	457
412453000	Tetrahydrofuran	693	414022	Benzyl alcohol	188	414902	Methanol	456
412471	Tetrahydrofuran	694	414024	Benzyl alcohol	188	414903	Methanol	456
412472	Tetrahydrofuran	694	414052	Benzyl alcohol	188	414914	Methanol	457
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4125212	Ethanol absolute anhydrous	311	414214	Isobutanol	409	415002	Octanol-1	500
412522	Ethanol absolute anhydrous	311	414261	Butanol-2	213	415003	Octanol-1	500
4125222	Ethanol absolute anhydrous	311	414264	Butanol-2	213	415004	Octanol-1	500
412531	Methanol	456	414266	Butanol-2	213	415102	Propan-1-ol	573
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463314	Dichloromethane	284
463315	Dichloromethane	284
463319	Dichloromethane	284
463421	Selenic mixture	596
463422	Selenic mixture	596
463431	Molybdenum standard solution	476
463453	Morpholine	477
463508	Morin	477
463509	Morin	477
463608	Murexide	480
463609	Murexide	480
463651	Naphthalene	481
463654	Naphthalene	481
463655	Naphthalene	481
463831	N-1-Naphthylethylenediamine dihydrochloride	482
463891	alpha-Naphtholbenzein	482
463935	1-Naphthol	481
463984	2-Naphthol	481
463986	2-Naphthol	481
464221	Eriochrome black T	309
464222	Eriochrome black T	309
464231	Nessler's reagent single solution	484
464232	Nessler's reagent single solution	484
464241	Sudan black B	671
464271	Nickel standard solution	486
464384	Nickel, powder	486
464422	Nessler's reagent solution A	484
464432	Nessler's reagent solution B	484
464474	Nickel (II) acetate tetrahydrate	486
464476	Nickel (II) acetate tetrahydrate	486
464477	Nickel (II) acetate tetrahydrate	486
464545	Nickel (II) ammonium sulfate hexahydrate	486
464547	Nickel (II) ammonium sulfate hexahydrate	486
464604	Nickel (II) carbonate basic	487
464605	Nickel (II) carbonate basic	487
464644	Nickel (II) chloride hexahydrate	487
464645	Nickel (II) chloride hexahydrate	487
464647	Nickel (II) chloride hexahydrate	487
464685	Nickel (II) nitrate hexahydrate	487
464686	Nickel (II) nitrate hexahydrate	487
464772	Nickel (II) sulfate hexahydrate	488
464775	Nickel (II) sulfate hexahydrate	488
464777	Nickel (II) sulfate hexahydrate	488
464852	Nigrosine	489
464853	Nigrosine	489
464922	Ninhydrin	489
464928	Ninhydrin	489
465142	m-Nitrobenzaldehyde	497
465222	Nitrobenzene	497
465502	Nitroethane	498
465744	p-Nitrophenol	498
466182	p-Nitroso-n,n-dimethylaniline	499
466361	Nonylphenol ethoxylated 10 ETO	499
466753	Oil of cedar wood	501
466757	Oil of cedar wood	501
466782	Immersion oil	392
466783	Immersion oil	392
466792	Paraffin oil	510
466831	Holmium oxide	368
466858	Orcein	502
466859	Orcein	502
466961	Gold standard solution	352
467007	Gold(III) chloride trihydrate	353
467353	8-Hydroxyquinoline	390
467355	8-Hydroxyquinoline	390
467562	n-Octane	500
467731	Palladium (II) chloride	508
467737	Palladium (II) chloride	508
467781	Papanicolaou solution EA 50	509
467782	Papanicolaou solution EA 50	509
467783	Papanicolaou solution EA 50	509
467791	Papanicolaou solution OG 6	510
467792	Papanicolaou solution OG 6	510
467793	Papanicolaou solution OG 6	510
467938	Paraffin 56°C-58°C - Erbaplast (with DMSO)	510
467958	Paraffin 56-58°C - Erbaplast (without DMSO)	510
468121	n-Pentane	513
468122	n-Pentane	513
468123	n-Pentane	513
468141	n-Pentane 99%	512
468142	n-Pentane 99%	512
468151000	n-Pentane 99%	512
468161	n-Pentane	513
468162	n-Pentane	513
468204	n-Pentane 99%	512
468245	Pepsin HCl	514
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468866	Lead	426	471176	Potassium chloride	540	472022000	Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	555
468932	Lead (II) acetate trihydrate	427	471177	Potassium chloride	540	472041000	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	557
468934	Lead (II) acetate trihydrate	427	471181	Potassium chloride	540	472042000	Potassium hydroxide 0.1 mol/l (0.1N) in ethanol	557
468935	Lead (II) acetate trihydrate	427	471215	Potassium chloride 3 mol/l (3N)	541	472056	Potassium hydroxide, pellets	552
468937	Lead (II) acetate trihydrate	427	471225	Potassium chloride 3.5 mol/l (3.5N)	541	472057	Potassium hydroxide, pellets	552
468984	Lead (II) acetate basic	426	471235	Potassium chloride 3 mol/l (3N) + silver chloride	542	472059	Potassium hydroxide, pellets	552
468985	Lead (II) acetate basic	426	471245	Potassium chloride 3.5 mol/l (3.5N) + silver chloride	541	472086	Potassium hydroxide, pellets	552
468987	Lead (II) acetate basic	426	471255	Potassium chloride 0.01 mol/l (0.01N)	542	472097	Potassium hydroxide, pellets	552
469055	Lead (IV) oxide	429	471265	Potassium chloride saturated solution	543	472103	Potassium hydroxide solution 45%	553
469057	Lead (IV) oxide	429	471275	Potassium chloride 3 mol/l (3N) water-glycerol solution	542	472171	Potassium hydroxide, pellets	552
469353	Lead (II) nitrate	428	471285	Potassium chloride solution	543	472172	Potassium hydroxide, pellets	552
469355	Lead (II) nitrate	428	471295	Potassium chromate	543	472173	Potassium hydroxide, pellets	552
469356	Lead (II) nitrate	428	471297	Potassium chromate	543	472175	Potassium hydroxide, pellets	552
469357	Lead (II) nitrate	428	471364	Potassium ferricyanide	547	472281000	Potassium hydroxide 1 mol/l (1N)	554
469404	Lead (II) oxide	429	471365	Potassium ferricyanide	547	472282000	Potassium hydroxide 1 mol/l (1N)	554
469505	Lead (II) sulfate	429	471367	Potassium ferricyanide	547	472287000	Potassium hydroxide 1 mol/l (1N)	554
469506	Lead (II) sulfate	429	471483	Potassium ferrocyanide trihydrate	547	472311	Potassium hydroxide 1 mol/l (1N)	554
469551	Piperidine	534	471484	Potassium ferrocyanide trihydrate	547	472331000	Potassium hydroxide 0.5 mol/l (0.5N)	554
469552	Piperidine	534	471485	Potassium ferrocyanide trihydrate	547	472332000	Potassium hydroxide 0.5 mol/l (0.5N)	554
469592	1-(2-Pyridylazo)-2-naphthol	581	471487	Potassium ferrocyanide trihydrate	547	472337000	Potassium hydroxide 0.5 mol/l (0.5N)	554
469621	Pyridine	580	471488	Potassium ferrocyanide trihydrate	547	472364000	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	555
469622	Pyridine	580	471555	Potassium fluoride dihydrate	549	472366000	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	555
469623	Pyridine	580	471561	Potassium fluoride	548	472367000	Potassium hydroxide 0.5 mol/l (0.5N) in methanol	555
469624	Pyridine	580	471562	Potassium fluoride	548	472391	Potassium hydroxide 0.5 mol/l (0.5N)	555
469626	Pyridine	580	471563	Potassium fluoride	548	472421000	Potassium hydroxide 0.25 mol/l (0.25N)	556
469629	Pyridine	580	471564	Potassium fluoride	548	472422000	Potassium hydroxide 0.25 mol/l (0.25N)	556
469652	Pyridine	580	471584	Potassium fluorotitanate	549	472427000	Potassium hydroxide 0.25 mol/l (0.25N)	556
469753	Pyrocatechol	582	471681	Potassium phosphate mono-basic	566	472451000	Potassium hydroxide 0.1 mol/l (0.1N)	557
469971	Pumice stone	580	471682	Potassium phosphate mono-basic	566	472452000	Potassium hydroxide 0.1 mol/l (0.1N)	557
470017	Hexachloroplatinic acid hexahydrate	360	471685	Potassium phosphate mono-basic	566	472457000	Potassium hydroxide 0.1 mol/l (0.1N)	557
470038	Bromocresol purple	200	471686	Potassium phosphate mono-basic	566	472484000	Potassium hydroxide 0.1 mol/l (0.1N) in methanol	557
470039	Bromocresol purple	200	471687	Potassium phosphate mono-basic	566	472486000	Potassium hydroxide 0.1 mol/l (0.1N) in methanol	557
470067	m-Cresol purple	267	471688	Potassium phosphate mono-basic anhydrous	565	472511	Potassium hydroxide 0.1 mol/l (0.1N)	557
470068	m-Cresol purple	267	471761	Potassium phosphate dibasic trihydrate	565	472563	Potassium iodate	558
470071	Polyvinylpyrrolidone	535	471764	Potassium phosphate dibasic trihydrate	565	472565	Potassium iodate	558
470072	Polyvinylpyrrolidone	535	471766	Potassium phosphate dibasic trihydrate	565	472601	Potassium iodate 0.0167 mol/l (0.1N)	558
470081	Potassium standard solution	536	471767	Potassium phosphate dibasic trihydrate	565	472631	Potassium iodate 0.00167 mol/l (0.01N)	558
470143	Potassium acetate	536	471781	Potassium phosphate dibasic anhydrous	565	472641	Potassium hydrogen iodate	550
470145	Potassium acetate	536	471782	Potassium phosphate dibasic anhydrous	565	472735	Potassium iodide	559
470146	Potassium acetate	536	471785	Potassium phosphate dibasic anhydrous	565	472736	Potassium iodide	559
470147	Potassium acetate	536	471786	Potassium phosphate dibasic anhydrous	565	472737	Potassium iodide	559
470285	Potassium bicarbonate	537	471787	Potassium phosphate dibasic anhydrous	565	472815000	Potassium iodide solution 3.9%	559
470286	Potassium bicarbonate	537	471788	Potassium phosphate dibasic anhydrous	565	472821	Potassium iodide	559
470287	Potassium bicarbonate	537	471865	Potassium hydrogen phthalate	550	472831	Potassium iodide solution 10%	559
470289	Potassium bicarbonate	537	471866	Potassium hydrogen phthalate	550	473001	Potassium nitrate	561
470336	Potassium dichromate	544	471867	Potassium hydrogen phthalate	550	473006	Potassium nitrate	561
470337	Potassium dichromate	544	471913	Potassium hydrogen phthalate	550	473007	Potassium nitrate	561
470451	Potassium dichromate 0.0417 mol/l (0.25N)	545	472021000	Potassium hydroxide 0.5 mol/l (0.5N) in ethanol	555	473009	Potassium nitrate	561
470501	Potassium dichromate 0.0167 mol/l (0.1 N)	546				473045	Potassium nitrate 1 mol/l (1N)	561
470552	Potassium bisulfate	537						
470556	Potassium bisulfate	537						
470557	Potassium bisulfate	537						
470655	Potassium bromate	538						
470681	Potassium bromate 0.0167 mol/l (0.1N)	538						
470701	Potassium bromide	539						
470733	Potassium bromide	539						
470734	Potassium bromide	539						
470735	Potassium bromide	539						
470737	Potassium bromide	539						
470801	Potassium carbonate	539						
470805	Potassium carbonate	539						
470807	Potassium carbonate	539						
471025	Potassium citrate tribasic monohydrate	544						
471027	Potassium citrate tribasic monohydrate	544						
471127	di-Potassium hexachloroplatinate	549						
471171	Potassium chloride	540						
471173	Potassium chloride	540						
471175	Potassium chloride	540						

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473084	Potassium nitrite	561	475607	Copper (I) chloride	262	478357	Sodium ammonium hydrogen phosphate	612
473133	Potassium oxalate monohydrate	562	475685	Copper (II) chloride dihydrate	263	478481	Sodium azide	613
473135	Potassium oxalate monohydrate	562	475687	Copper (II) chloride dihydrate	263	478482	Sodium azide	613
473137	Potassium oxalate monohydrate	562	475782	Copper (II) nitrate trihydrate	264	478484	Sodium azide	613
473332	Potassium periodate	562	475783	Copper (II) nitrate trihydrate	264	478531	Sodium bicarbonate	614
473334	Potassium periodate	562	475784	Copper (II) nitrate trihydrate	264	478532	Sodium bicarbonate	614
473381	Potassium permanganate	562	475786	Copper (II) nitrate trihydrate	264	478535	Sodium bicarbonate	614
473384	Potassium permanganate	562	475994	Copper (II) oxide	264	478536	Sodium bicarbonate	614
473385	Potassium permanganate	562	475997	Copper (II) oxide	264	478537	Sodium bicarbonate	614
473387	Potassium permanganate	562	476092	Copper (II) sulfate pentahydrate	265	478673	Sodium bisulfate monohydrate	614
473514000	Potassium permanganate 0.2 mol/l (1N)	563	476096	Copper (II) sulfate pentahydrate	265	478675	Sodium bisulfate monohydrate	614
473565000	Potassium permanganate 0.02 mol/l (0.1N)	563	476097	Copper (II) sulfate pentahydrate	265	478676	Sodium bisulfate monohydrate	614
473567000	Potassium permanganate 0.02 mol/l (0.1N)	563	476099	Copper (II) sulfate pentahydrate	265	478677	Sodium bisulfate monohydrate	614
473591	Potassium permanganate 0.02 mol/l (0.1N)	563	476154	Copper (II) sulfate pentahydrate	265	478812	Sodium tetraborate decahydrate	654
473661	Potassium permanganate 0.002 mol/l (0.01N)	564	476243	Copper (II) sulfate anhydrous	265	478815	Sodium tetraborate decahydrate	654
473701	Potassium persulfate	564	476245	Copper (II) sulfate anhydrous	265	478816	Sodium tetraborate decahydrate	654
473835	Potassium pyroantimonate acid	566	476247	Copper (II) sulfate anhydrous	265	478817	Sodium tetraborate decahydrate	654
473915	tetra-Potassium pyrophosphate	567	476312	L(+)-Rhamnose	587	478819	Sodium tetraborate decahydrate	654
474016	Potassium pyrosulphate	567	476565	Resorcinol	587	478953	Sodium borohydride	615
474017	Potassium pyrosulphate	567	476608	D(-)Ribose	589	478955	Sodium borohydride	615
474112	Potassium sodium tartrate tetrahydrate	568	476609	D(-)Ribose	589	478957	Sodium borohydride	615
474114	Potassium sodium tartrate tetrahydrate	568	476671	Potassium permanganate	562	478964	Sodium borohydride	615
474115	Potassium sodium tartrate tetrahydrate	568	476687	Quinaldine red	584	479055	Sodium bromide	615
474116	Potassium sodium tartrate tetrahydrate	568	476688	Quinaldine red	584	479057	Sodium bromide	615
474117	Potassium sodium tartrate tetrahydrate	568	476762	Congo red	259	479121	Sodium carbonate decahydrate	616
474119	Potassium sodium tartrate tetrahydrate	568	476764	Congo red	259	479122	Sodium carbonate decahydrate	616
474166	Potassium sulfate	569	476778	o-Cresol red	266	479125	Sodium carbonate decahydrate	616
474167	Potassium sulfate	569	476838	Phenol red	525	479126	Sodium carbonate decahydrate	616
474169	Potassium sulfate	569	476839	Phenol red	525	479127	Sodium carbonate decahydrate	616
474205	Potassium sulfate	568	476881	Methyl red	469	479151	Sodium carbonate solution 20%	617
474355	Potassium thiocyanate	570	476882	Methyl red	469	479186	Sodium carbonate 0.5 mol/l (1N)	618
474357	Potassium thiocyanate	570	476883	Methyl red	469	479211	Sodium carbonate 0.05 mol/l (0.1N)	618
474465	Potassium tartrate	569	476941	Ponceau red BS	535	479255	Sodium carbonate monohydrate	617
474467	Potassium tartrate	569	476951	Neutral red	485	479256	Sodium carbonate monohydrate	617
474515	Potassium L-tartrate monobasic	569	476961	Red for oils O	586	479257	Sodium carbonate monohydrate	617
474517	Potassium L-tartrate monobasic	569	476981	Ponceau red S	535	479301	Sodium carbonate anhydrous	616
474652	Potassium tellurite	570	476982	Ponceau red S	535	479302	Sodium carbonate anhydrous	616
474708	L(-)Proline	572	477011	Nuclear fast red	499	479305	Sodium carbonate anhydrous	616
474709	L(-)Proline	572	477012	Nuclear fast red	499	479306	Sodium carbonate anhydrous	616
474756	Isopropylamine	414	477153	Sand purified	594	479307	Sodium carbonate anhydrous	616
474807	n-Propyl acetate	578	477182	D(+)-Sucrose	671	479331	Sodium carbonate anhydrous	616
474821	Isopropyl acetate	413	477183	D(+)-Sucrose	671	479371	Sodium cyanoborohydride	621
474871	Propylene carbonate	579	477186	D(+)-Sucrose	671	479484	Sodium citrate tribasic dihydrate	620
475132	Raffinose	585	477187	D(+)-Sucrose	671	479485	Sodium citrate tribasic dihydrate	620
475151	Copper standard solution	260	477232	Safranin T	592	479487	Sodium citrate tribasic dihydrate	620
475185	Copper electrolytic, wire	261	477241	Safranin T hydroalcoholic solution for Gram-Hucker Kit	592	479488	Sodium citrate tribasic dihydrate	620
475187	Copper electrolytic, wire	261	477591	Schiff's reagent for PAS coloration	595	479652	Sodium chloride	618
475215	Copper electrolytic rebaked, sheet	261	477592	Schiff's reagent for PAS coloration	595	479661	Sodium chloride	619
475305	Copper electrolytic, turnings	261	477601	Schiff's reagent for Aldehydes	595	479662	Sodium chloride	619
475307	Copper electrolytic, turnings	261	477691	Selenium standard solution	596	479663	Sodium chloride	619
475334	Copper reduced, powder	261	477702	Selenium, powder	597	479671	Sodium chloride	618
475337	Copper reduced, powder	261	477707	Selenium, powder	597	479681	Sodium chloride	619
475405	Copper (II) acetate hydrate	262	477721	Molecular sieves 3 A	475	479685	Sodium chloride	619
475407	Copper (II) acetate hydrate	262	477731	Molecular sieves 3 A	475	479686	Sodium chloride	619
475553	Copper (II) carbonate (basic)	262	477762	Selenium dioxide	597	479687	Sodium chloride	619
475555	Copper (II) carbonate (basic)	262	477961	Silicon standard solution	600	479689	Sodium chloride	619
475557	Copper (II) carbonate (basic)	262	478032	Redox solution 220 mV at 25°C	586	479781	Sodium chloride 0.1 mol/l (0, 1N)	620
475605	Copper (I) chloride	262	478052	Redox solution 468 mV at 25°C	586	479833	Sodium cobalt nitrite	621
			478081	Sodium, metallic	610			
			478101	Sodium standard solution	610			
			478132	Sodium acetate trihydrate	611			
			478135	Sodium acetate trihydrate	611			
			478136	Sodium acetate trihydrate	611			
			478137	Sodium acetate trihydrate	611			
			478139	Sodium acetate trihydrate	611			
			478163	Sodium acetate anhydrous	610			
			478165	Sodium acetate anhydrous	610			
			478166	Sodium acetate anhydrous	610			
			478167	Sodium acetate anhydrous	610			
			478232	Sodium aluminate	612			
			478237	Sodium aluminate	612			

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479911	Tris (hydroxymethyl)-amino-methane hydrochloride	721	480563	Sodium hydroxide solution 32%	628	481755	Sodium nitrate	642
479912	Tris (hydroxymethyl)-amino-methane hydrochloride	721	480564	Sodium hydroxide solution 32%	628	481756	Sodium nitrate	642
479913	Tris (hydroxymethyl)-amino-methane hydrochloride	721	480566	Sodium hydroxide solution 32%	628	481757	Sodium nitrate	642
479921	Sodium dichloroisocyanurate dihydrate	622	480591	Sodium hydroxide solution 35%	628	481759	Sodium nitrate	642
479954	Sodium fluoride	622	480593	Sodium hydroxide solution 35%	628	481825	Sodium nitrite	642
479955	Sodium fluoride	622	480621	Sodium hydroxide solution 20% w/w	630	481826	Sodium nitrite	642
479957	Sodium fluoride	622	480622	Sodium hydroxide solution 20% w/w	630	481827	Sodium nitrite	642
480005	Sodium hexafluorosilicate	624	480681000	Sodium hydroxide 2 mol/l (2N)	633	481829	Sodium nitrite	642
480045	Sodium formate	623	480682000	Sodium hydroxide 2 mol/l (2N)	633	481932	Sodium nitroprusside dihydrate	643
480046	Sodium formate	623	480684000	Sodium hydroxide 2 mol/l (2N)	633	481934	Sodium nitroprusside dihydrate	643
480081	Sodium phosphate monobasic monohydrate	648	480686000	Sodium hydroxide 2 mol/l (2N)	633	482041	Sodium o-Phosphite pentahydrate	649
480082	Sodium phosphate monobasic monohydrate	648	480687000	Sodium hydroxide 2 mol/l (2N)	633	482042	Sodium o-Phosphite pentahydrate	649
480085	Sodium phosphate monobasic monohydrate	648	480711000	Sodium hydroxide 1 mol/l (1N)	634	482064	Sodium oxalate	644
480086	Sodium phosphate monobasic monohydrate	648	480713000	Sodium hydroxide 1 mol/l (1N)	634	482065	Sodium oxalate	644
480087	Sodium phosphate monobasic monohydrate	648	480714000	Sodium hydroxide 1 mol/l (1N)	634	482067	Sodium oxalate	644
480131	Sodium phosphate dibasic dodecahydrate	647	480717000	Sodium hydroxide 1 mol/l (1N)	634	482101	Sodium oxalate	643
480132	Sodium phosphate dibasic dodecahydrate	647	480741	Sodium hydroxide 1 mol/l (1N)	634	482183	Sodium perborate tetrahydrate	644
480133	Sodium phosphate dibasic dodecahydrate	647	480771000	Sodium hydroxide 0.5 mol/l (N/2)	634	482185	Sodium perborate tetrahydrate	644
480134	Sodium phosphate dibasic dodecahydrate	647	480772000	Sodium hydroxide 0.5 mol/l (N/2)	634	482187	Sodium perborate tetrahydrate	644
480135	Sodium phosphate dibasic dodecahydrate	647	480773000	Sodium hydroxide 0.5 mol/l (N/2)	634	482204	Sodium perchlorate monohydrate	644
480136	Sodium phosphate dibasic dodecahydrate	647	480777000	Sodium hydroxide 0.5 mol/l (N/2)	634	482234	Sodium metaperiodate	640
480137	Sodium phosphate dibasic dodecahydrate	647	480801	Sodium hydroxide 0.5 mol/l (N/2)	634	482236	Sodium metaperiodate	640
480141	Sodium phosphate dibasic anhydrous	646	480837000	Sodium hydroxide 0.357 mol/l (0.357N)	635	482252	Sodium peroxide	645
480142	Sodium phosphate dibasic anhydrous	646	480861000	Sodium hydroxide 0.25 mol/l (N/4)	635	482363	Sodium persulfate	645
480143	Sodium phosphate dibasic anhydrous	646	480862000	Sodium hydroxide 0.25 mol/l (N/4)	635	482365	Sodium persulfate	645
480144	Sodium phosphate dibasic anhydrous	646	480863000	Sodium hydroxide 0.25 mol/l (N/4)	635	482367	Sodium persulfate	645
480222	Sodium phosphate dibasic dihydrate	646	4808667000	Sodium hydroxide 0.25 mol/l (N/4)	635	482421	Sodium pyrophosphate decahydrate	650
480225	Sodium phosphate dibasic dihydrate	646	480867000	Sodium hydroxide 0.25 mol/l (N/4)	635	482422	Sodium pyrophosphate decahydrate	650
480226	Sodium phosphate dibasic dihydrate	646	480891000	Sodium hydroxide 0.1 mol/l (N/10)	636	482426	Sodium pyrophosphate decahydrate	650
480227	Sodium phosphate dibasic dihydrate	646	480892000	Sodium hydroxide 0.1 mol/l (N/10)	636	482427	Sodium pyrophosphate decahydrate	650
480271	Sodium phosphate tribasic dodecahydrate	649	480893000	Sodium hydroxide 0.1 mol/l (N/10)	636	482957	Sodium sulfate decahydrate	652
480272	Sodium phosphate tribasic dodecahydrate	649	480895000	Sodium hydroxide 0.1 mol/l (N/10)	636	482959	Sodium sulfate decahydrate	652
480275	Sodium phosphate tribasic dodecahydrate	649	480897000	Sodium hydroxide 0.1 mol/l (N/10)	636	483001	Sodium sulfate anhydrous	651
480276	Sodium phosphate tribasic dodecahydrate	649	480921	Sodium hydroxide 0.1 mol/l (N/10)	636	483005	Sodium sulfate anhydrous	651
480277	Sodium phosphate tribasic dodecahydrate	649	481001	Sodium hydroxide 0.01 mol/l (N/100)	637	483006	Sodium sulfate anhydrous	651
480501	Sodium hydroxide, pellets	626	481162	Sodium iodide	639	483007	Sodium sulfate anhydrous	651
480502	Sodium hydroxide, pellets	626	481163	Sodium iodide	639	483009	Sodium sulfate anhydrous	651
480505	Sodium hydroxide, pellets	626	481164	Sodium iodide	639	483011	Sodium sulfate anhydrous	652
480507	Sodium hydroxide, pellets	626	481181	Sodium hypochlorite solution in water	638	483017	Sodium sulfate anhydrous	652
480508	Sodium hydroxide, pellets	626	481185	Sodium hypochlorite solution in water	638	483019	Sodium sulfate anhydrous	652
480509	Sodium hydroxide, pellets	626	481201	Sodium hypophosphite	639	483025	Sodium sulfate anhydrous	651
480522	Sodium hydroxide, pellets	626	481202	Sodium hypophosphite	639	483252	Sodium sulfite anhydrous	653
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524381	Heptane mixture of isomers	359	526513	Sodium hydroxide 5 mol/l (5N)	632	527680	Ethanol absolute anhydrous	311
524391	Isopentane	412	526521	Sodium hydroxide solution 32%	628	527681	Ethanol absolute anhydrous	311
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524732	Sodium hydroxide 3 mol/l (3N)	632	526935	Formaldehyde 30% w/v with sodium chloride	338	528206	Acetone	128
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524912	Reagent for lipolysis	585	526937	Formaldehyde 4% w/v buffered at pH 6.9	339	528216	Cyclohexane	270
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611071600	Potassium tetraiodomercurate solution, alkaline	570	612202300	Primary solutions for degree of coloration of liquids	572	613005900	Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l (0.2N)	325
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611089603	Thioacetamide solution 40 g/l	697	613001000	Bromide - bromate 0.0167 mol/l	198	613009400	Iodine 0.5 mol/l (1N)	397
611090601	Thymol blue solution	700	613001100	Cerium (IV) sulfate 0.1 mol/l	239	613009600	Barium perchlorate 0.025 mol/l	183
611090701	Thymolphthalein solution 0.1% in ethanol	701	613001101	Cerium (IV) sulfate 0.1 mol/l	239	613009601	Barium perchlorate 0.025 mol/l	183
611091202	Titanium trichloride-sulfuric acid reagent	707	613001300	Iron (III) ammonium sulfate 0.1 mol/l	403	613009700	Lead (II) nitrate 0.05 mol/l	428
611094201	Tris(hydroxymethyl)amino-methane solution	720	613001400	Iron (II) sulfate 0.1 mol/l	407	613010100	Lanthanum nitrate 0.1 mol/l	424
611095302	Vanillin solution, phosphoric	726	613001500	Hydrochloric acid 6 mol/l (6N)	376	614000100	Acetone	127
611095501	Water	729	613001700	Hydrochloric acid 2 mol/l (2N)	378	614000200	Buffer pH 2	204
611095506	Water	729	613001800	Hydrochloric acid 1 mol/l (1N)	378	614000500	Phosphate buffer pH 3.0	529
611096501	Zinc, activated	739	613001801	Hydrochloric acid 1 mol/l (1N)	378	614000501	Phosphate buffer pH 3.0	529
611096601	Zinc chloride-formic acid solution	741	613002100	Hydrochloric acid 0.1 mol/l (0.1N)	381	614000600	Buffer pH 3.5	204
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P2200017	Silica gel 60A 20 - 45µ	598
P2200027	Silica gel 60A 20 - 45µ	598
P3100015	Acetic acid 0.1 mol/l (0.1N)	124
P3160015	Hydrochloric acid 5 mol/l (5N)	377
P3160095	Hydrochloric acid 5 mol/l (5N)	377
P3240015	Sulfuric acid 2.5 mol/l (5N)	681
P3250016	Iron (II) ammonium sulfate 0.1N	404
P3350016	Potassium dichromate 0.0167 mol/l (0.1 N)	546
P3440015	Sodium hydroxide 0.2 mol/l (N/5)	636
P3520022	Sodium thiosulfate 0.2 mol/l (0.2N)	657
P3530015	Sodium thiosulfate 0.5 mol/l (0.5N)	657
P3840016	Tetrabutylammonium hydroxide solution 0.1 mol/l (0.1N) in methanol / propanol-2	692
P4500022	Sodium hydroxide 1/9 mol/l (N/9)	636
P4540041	Sodium hydroxide solution 50%	627
P4540049	Sodium hydroxide solution 50%	627
P5006	Chloroform-d + 0.03% TMS	249
P5013A	Acetic acid-d4	125
P5039	Acetic acid-d4	125
P5044A	Acetone-d6	129
P5044S	Acetone-d6	129
P5045	Acetone-d6	129
P5046	Acetone-d6	129
P5049	Acetone-d6	129
P5055	Orthophosphoric acid-d3 85% in D2O	504
P5060	Acetone-d6	129
P5070	Acetonitrile-d3	132
P5073A	Acetonitrile-d3	132
P5079	Acetonitrile-d3	132
P5085	Benzene-d6	186
P5086	Benzene-d6	186
P5089	Benzene-d6	186
P5100	Benzene-d6	186
P5115	Chloroform-d	248
P5116	Chloroform-d	248
P5117	Chloroform-d	248
P5118	Chloroform-d	248
P5119	Chloroform-d	248
P5130	Chloroform-d	249
P5135	Chloroform-d	249
P5139	Chloroform-d	249
P5140	Methanol-d4 + 0.03% TMS	460
P5151A	Cyclohexane-d12	271
P5160	Deuterium oxide-d	275
P5160T	Deuterium oxide-d + 0.03% TSP d4	276
P5161T	Deuterium oxide-d + 0.5% TSP d4	276
P5164	Deuterium oxide-d	275
P5165	Deuterium oxide-d	275
P5165S	Deuterium oxide-d	275
P5166	Deuterium oxide-d	275
P5168	Deuterium oxide-d	275
P5169	Deuterium oxide-d	275
P5170D	Deuterium oxide-d + 0.01% DMSO	276
P5173D	Deuterium oxide-d + 0.01% DMSO	276
P5175	Deuterium oxide-d	275
P5179	Deuterium oxide-d	275
P5183A	n,n-Dimethylformamide-d7	297
P5189A	n,n-Dimethylformamide-d7	297
P5200	Dimethylsulphoxide-d6	299
P5204A	Dimethylsulphoxide-d6	299
P5204S	Dimethylsulphoxide-d6	299
P5205	Dimethylsulphoxide-d6	299
P5206	Dimethylsulphoxide-d6	299
P5209	Dimethylsulphoxide-d6	299
P5220	Dimethylsulphoxide-d6	299
P5229	Dimethylsulphoxide-d6	299
P5262A	Ethanol-d6 anhydrous	319
P5275	Methanol-d1	460
P5280	Methanol-d4	460
P5283A	Methanol-d4	460
P5284	Methanol-d4	460
P5284S	Methanol-d4	460
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P5319	Methanol-d4	460
P5325	Chloroform-d	249
P5330	Dichloromethane-d2	286
P5334A	Dichloromethane-d2	286
P5335	Dichloromethane-d2	286
P5339	Dichloromethane-d2	286
P5364A	Pyridine-d5	581
P5369A	Pyridine-d5	581
P5370	Pyridine-d5	581
P5380	Tetrahydrofuran-d8	695
P5385	Tetrahydrofuran-d8	695
P5393A	Toluene-d8	710
P5395	Toluene-d8	710
P5399A	Toluene-d8	710
P5413A	Trifluoroacetic acid-d	716
P5419A	Trifluoroacetic acid-d	716
P5435	Tetrachloroethane-d2	692
P5449A	Trifluoroethanol-d2	717
P5455S	Tetramethylsilane	696
P5462	3-Trimethylsilylpropionic acid sodium salt-d4	718
P5472A	Hexane-d14	365
P5505	Chloroform-d	249
P5533A	1,2-Dichlorobenzene-d4	280
P5541	Dimethylsulphoxide-d6 + 0.03% TMS	300
P5545	Dimethylsulphoxide-d6 + 0.03% TMS	300
P557X	Molecular sieves 3 A deuterated	475
P5602	Dimethylsulphoxide-d6 + 0.03% TMS	300
P5605	Dimethylsulphoxide-d6 + 0.03% TMS	300
P5606	Dimethylsulphoxide-d6 + 0.03% TMS	300
P5665	Sodium hydroxide-d 1 mol/l	637
P5675	Sodium hydroxide-d 1 30%	637
P5685	Hydrochloric acid-d 20%	383
P5695	Hydrochloric acid-d 1 mol/l	383
P5733	Formic acid-d	342
P588100UP	Tubes 10 mm	722
P588500HP	Tubes 5 mm	722
P588500TT	Tubes 5 mm	722
P588500UP	Tubes 5 mm	722
P588501HP	Tubes 5 mm	722
P588505	Tubes 5 mm	722
P6070268	Isopropyl myristate	414
P6080503	Hexafluoro-2-propanol	360
P6080518	Hexafluoro-2-propanol	360
P6151010	Formamide	340
P6250222	2-(2-Butoxyethoxy)ethanol	215
P6263216	Isohexane	410
P6263221	Isohexane	410
P6310222	2-Butoxy ethanol	214
P7600513	Sodium laurylsulfate	640
P7600514	Sodium laurylsulfate	640
P7600517	Sodium laurylsulfate	640
P8010216	Cyclopentyl methyl ether	272
P8010229	Cyclopentyl methyl ether	272
P8020216	n,n'-Dimethylpropylene uree	298
P8020218	n,n'-Dimethylpropylene uree	298
P8020229	n,n'-Dimethylpropylene uree	298
P8020248	n,n'-Dimethylpropylene uree	298
P8030216	1,3-Dioxolane	302
P8030222	1,3-Dioxolane	302
P8040216	1,3-Propanediol	577
P8040222	1,3-Propanediol	577
P8040268	1,3-Propanediol	577
P8880014	Dicalite 4158	278
P8880017	Dicalite 4158	278
P8880027	Dicalite 4158	278
P932SP16	Sulfolane	674
P9350015	Sodium hypochlorite solution 12.5%	638
P9350046	Sodium hypochlorite solution 12.5%	638
P9350049	Sodium hypochlorite solution 12.5%	638
P9550276	Lynalol	430
P9960216	2-Methyltetrahydrofuran	470
P9960221	2-Methyltetrahydrofuran	470
P9960229	2-Methyltetrahydrofuran	470
P9960248	2-Methyltetrahydrofuran	470
P9960268	2-Methyltetrahydrofuran	470
P9990216	4-Methyltetrahydropyran	471
P9990218	4-Methyltetrahydropyran	471
P9990221	4-Methyltetrahydropyran	471
PS0016/96	Sulfuric acid 0.025 mol/l (0.05N)	684
PS0026/95	Sulfuric acid 0.005 mol/l (0.01N)	684
PS0030/15	Silver nitrate 0.01 mol/l (N/100)	606
PS0047/15	Sulfuric acid 0.01 mol/l (0.02N)	684
PS0047/95	Sulfuric acid 0.01 mol/l (0.02N)	684
PS0047/96	Sulfuric acid 0.01 mol/l (0.02N)	684
PS0083/41	Sodium persulfate 1 mol/l	645
PS0083/42	Sodium persulfate 1 mol/l	645
PS0084/22	Orthophosphoric acid 10%	504
PS0084/42	Orthophosphoric acid 10%	504
PS0158/15	Rhodol solution	588
PS0158/29	Rhodol solution	588
PS0158/41	Rhodol solution	588
PS0168/15	Silver nitrate 0.025 mol/l (0.025N)	606
PS0187/15	Thymol blue TA indicator	701
PS0187/16	Thymol blue TA indicator	701
PS0189/15	Bromophenol blue TAC indicator	202
PS0189/16	Bromophenol blue TAC indicator	202
PS0194/22	Ammonia buffer solution pH 10	151
PS0194/95	Ammonia buffer solution pH 10	151
PS0194/96	Ammonia buffer solution pH 10	151
PS0200/15	Buffer pH 10	210
PS0200/95	Buffer pH 10	210
PS0212/21	Sulfuric acid 25 %	680
PS0215/15	Sodium hydroxide 0.01 mol/l (N/100)	637
PS0217/15	Sulfuric acid 0.166 mol/l (0.333N)	682
PS0219/15	Sulfuric acid 0.02 mol/l (0.04N)	684
PS0219/95	Sulfuric acid 0.02 mol/l (0.04N)	684
PS0219/96	Sulfuric acid 0.02 mol/l (0.04N)	684
PS0221/29	Acetic acid 12%	123
PS0222/52	Acetic acid 25%	123
PS0226/29	Boric buffer solution	195
PS0226/41	Boric buffer solution	195
PS0269/15	Bromophenol blue indicator	202
PS0270/15	Thymol blue indicator	700
PS0308/15	Titrating solution	707
PS0311/20	Nitric acid 8 mol/l (8N)	495
PS0320/41	Sodium hydroxide 40g/l	631
PS0327/21	Reagent TAN	585
PS0327/29	Reagent TAN	585
PS0327/39	Reagent TAN	585
PS0342/15	Hydrochloric acid 0.02 mol/l (0.02N)	382
PS0347/22	Hydrochloric acid 12%	375
PS0347/49	Hydrochloric acid 12%	375
PS0347/66	Hydrochloric acid 12%	375
PS0363/21	Tisab	705
PS0423/21	Reagent TBN	586
PS0423/29	Reagent TBN	586
PS0423/39	Reagent TBN	586
PS0427/15	Buffer pH 9	209
PS0427/19	Buffer pH 9	209
PS0445/22	Sulfuric acid 0.125 mol/l (0.25N)	683
PS0445/41	Sulfuric acid 0.125 mol/l (0.25N)	683
PS0492/41	Fehling's A reagent	331
PS0493/41	Fehling's B reagent	331
PS0562/22	Boric acid 20 g/l with indicator	194
PS0563/21	Boric acid 3%	195
PS0573/21	Mixture for bromine index determination	473
PS0587/15	Hydrochloric acid 0.05 mol/l (0.05N)	382
PS0587/22	Hydrochloric acid 0.05 mol/l (0.05N)	382
PS0589/15	Hydrochloric acid 4 mol/l (4N)	377
PS0589/22	Hydrochloric acid 4 mol/l (4N)	377
PS0589/49	Hydrochloric acid 4 mol/l (4N)	377
PS0594/41	Sodium hydroxide 2.5 mol/l (2.5N)	632
PS0594/42	Sodium hydroxide 2.5 mol/l (2.5N)	632
PS0594/66	Sodium hydroxide 2.5 mol/l (2.5N)	632
PS0703/22	Boric Acid 20g/l	194
PS0724/42	Nitric acid 7 mol/l (7N)	495
PS0736/41	Sodium hydroxide 1.2 mol/l (1.2N)	633
PS0736/42	Sodium hydroxide 1.2 mol/l (1.2N)	633
PS0736/49	Sodium hydroxide 1.2 mol/l (1.2N)	633
PS0740/95	Phosphate buffer pH 7.4	529
PS0751/29	Hydrochloric acid 20%	374
PS0768/41	Hydrochloric acid 10%	375
PS0769/20	Hydrochloric acid 26%	374
PS0772/49	Potassium chloride 1 mol/l (1N)	542
PS0772/79	Potassium chloride 1 mol/l (1N)	542
PS0776/49	Acetic acid 80%	121
PS0784/95	Buffer acetate pH 4.5	203
PS0808/41	Acetic acid 17%	123
PS0809/22	Tisab	705
PS0858/49	Sodium hydroxide 200g/l	631
PS0864/41	Hydrochloric acid 5%	376
PS0893/21	Sulfuric acid 69%	679

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50-00-0	Formaldehyde 37% w/v neutralized	336	64-17-5	Ethanol absolute denaturated	317	75-78-5	Dimethyldichlorosilane	295
50-00-0	Formaldehyde 37% w/v	337	64-17-5	Ethanol 95° denaturated	317	75-85-4	tert-Amyl alcohol	166
50-00-0	Formaldehyde 35% w/w	337	64-17-5	Ethanol 94° denaturated	318	76-03-9	Trichloroacetic acid	712
50-00-0	Formaldehyde 30% w/v	337	64-17-5	Ethanol 90° denaturated	318	76-03-9	Trichloroacetic acid solution 20%	713
50-00-0	Formaldehyde 30% w/w with sodium chloride	338	64-17-5	Ethanol 70°modified	318	76-03-9	Trichloroacetic acid solution 3% in dichloromethane	713
50-00-0	Formaldehyde 10% v/v according to Lillie	338	64-18-6	Formic acid 99%	340	76-05-1	Trifluoroacetic acid	715
50-00-0	Formaldehyde 5% w/v buffered at pH 6.9	338	64-18-6	Formic acid 85%	341	76-54-0	2',7'-Dichlorofluorescein	281
50-00-0	Formaldehyde 4% w/v with sodium chloride	339	64-19-7	Acetic acid glacial	118	76-59-5	Bromothymol blue	202
50-00-0	Formaldehyde 4% w/v buffered at pH 6.9	339	64-19-7	Acetic acid 96%	121	76-59-5	Bromothymol blue 0.4% in ethanol	202
50-00-0	Formaldehyde acetic	340	64-19-7	Acetic acid 80%	121	76-59-5	Bromothymol blue 0.02%	202
50-69-1	D(-)Ribose	589	64-19-7	Acetic acid 45%	122	76-59-5	Bromothymol blue solution	203
50-70-4	Sorbitol	659	64-19-7	Acetic acid 30%	122	76-60-8	Bromocresol Green	199
50-70-4	Sorbitol (no crystallizable) solution 70%	659	64-19-7	Acetic acid 28%	122	76-60-8	Bromocresol Green 0.04% hydroalcoholic solution	199
50-70-4	D-Sorbitol	660	64-19-7	Acetic acid 27%	122	76-60-8	Bromocresol green solution	199
50-81-7	L(+)-Ascorbic acid	172	64-19-7	Acetic acid 25%	123	76-61-9	Thymol blue	700
50-99-7	D(+)-Glucose anhydrous	348	64-19-7	Acetic acid 17%	123	76-61-9	Thymol blue 0.4% in ethanol	700
52-90-4	L-Cysteine	272	64-19-7	Acetic acid 12%	123	77-09-8	Phenolphthalein	525
54-21-7	Sodium salicylate	650	64-19-7	Acetic acid 1 mol/l (1N)	124	77-86-1	Tris (hydroxymethyl)-amino-methane	719
55-55-0	4-Methylaminophenol sulfate	462	64-19-7	Acetic acid 0.1 mol/l (0.1N)	124	77-92-9	Citric acid anhydrous	255
56-40-6	Glycine	351	64-19-7	Acetic acid 0.03 mol/l (0.03N)	124	78-50-2	Trioctylphosphine oxide	718
56-81-5	Glycerol (30°Bé)	349	65-61-2	Acridine orange	134	78-59-1	Isophorone	413
56-81-5	Glycerol 90% (28° Bé)	350	65-85-0	Benzoic acid	187	78-70-6	Lynalol	430
56-84-8	L(+)-Aspartic acid	173	67-42-5	Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid	328	78-78-4	Isopentane	412
56-86-0	L(+)-Glutamic acid	349	67-43-6	Diethylenetriaminepentacetic acid	289	78-83-1	Isobutanol	409
56-89-3	L-Cystine	272	67-52-7	Barbituric acid	178	78-92-2	Butanol-2	213
56-92-8	Histamine dihydrochloride	366	67-56-1	Methanol	455	78-93-3	Ethyl methyl ketone	329
57-09-0	Trimethylcetylammmonium bromide	717	67-56-1	Methanol + 0.1% v/v formic acid	459	79-07-2	Chloroacetamide	244
57-11-4	Stearic acid	667	67-56-1	Methanol + 0.1% v/v trifluoroacetic acid	459	79-09-4	Propionic acid	578
57-13-6	Urea	724	67-56-1	Methanol, hydrochloric	459	79-11-8	Chloroacetic acid	244
57-48-7	D(-)Fructose	342	67-63-0	Propan-2-ol	573	79-14-1	Glycolic acid	351
57-50-1	D(+)-Sucrose	671	67-63-0	Propan-2-ol 70%	576	79-20-9	Methyl acetate	462
57-55-6	Propylene glycol	579	67-64-1	Acetone	126	79-24-3	Nitroethane	498
58-08-2	Caffeine anhydrous	221	67-66-3	Chloroform	245	79-31-2	Isobutyric acid	410
58-86-6	D(+)-Xylose	734	67-68-5	Dimethylsulphoxide	298	79-33-4	Lactic acid	422
59-23-4	D(+)-Galactose	344	68-04-2	Sodium citrate tribasic anhydrous	620	79-43-6	Dichloroacetic acid	279
59-51-8	DL-Methionine	461	68-11-1	Thioglycolic acid 80%	698	82-94-0	Methyl green	465
59-67-6	Nicotinic acid	489	68-12-2	n,n-Dimethylformamide	295	83-07-8	4-Aminophenazon	146
59-88-1	Phenylhydrazine hydrochloride	524	69-65-8	D-Mannitol	449	83-88-5	Riboflavine	589
59-88-1	Phenolphthalein solution 0.1%	526	69-72-7	Salicylic acid	592	84-66-2	Diethyl phthalate	291
59-88-1	Phenylhydrazine hydrochloride solution	528	70-55-3	p-Toluene sulfonamide	710	85-44-9	Phthalic anhydride	533
60-00-4	Ethylenediaminetetraacetic acid	323	71-23-8	Propan-1-ol	572	85-85-8	1-(2-Pyridylazo)-2-naphthol	581
60-10-6	Diphenylthiocarbazon	304	71-36-3	Butanol-1	212	85-86-9	Sudan III	671
60-11-7	Methyl yellow	471	71-41-0	n-Amyl alcohol	166	85-86-9	Sudan III hydroalcoholic saturated solution	672
60-12-8	2-Phenylethanol	527	71-43-2	Benzene	185	87-66-1	Pyrogallol	582
60-18-4	L(-)Tyrosine	723	71-91-0	Tetraethylammmonium bromide	693	87-69-4	L(+)-Tartaric Acid	688
60-24-2	2-Mercaptoethanol	451	72-48-0	Alizarin	136	87-69-4	L(+)-Tartaric acid solution 20% in water	689
60-29-7	Diethyl ether	289	72-48-0	Alizarin saturated solution in ethanol	136	87-88-7	Chloranilic acid	243
60-35-5	Acetamide	117	73-32-5	L(+)-Isoleucine	411	87-89-8	Inositol	396
61-73-4	Methylene blue saturated solution	464	74-79-3	L(+)-Arginine	170	88-89-1	Picric acid solution	533
61-73-4	Methylene blue solution 1%	465	74-88-4	Methyl iodide	465	88-89-3	Phthalic acid	533
61-90-5	L(+)-Leucine	430	75-05-8	Acetonitrile	129	89-83-8	Thymol	699
62-44-2	p-Acetylphenetidine	133	75-05-8	Acetonitrile + 0.1% v/v formic acid	132	90-11-9	alpha-Bromonaphthalene	200
62-54-4	Calcium acetate anhydrous	222	75-05-8	Acetonitrile + 0.1% v/v trifluoroacetic acid	132	90-13-1	alpha-Chloronaphthalene	249
62-55-5	Thioacetamide	697	75-09-2	Dichloromethane	281	90-15-3	1-Naphthol	481
62-55-5	Thioacetamide solution 40 g/l	697	75-09-2	Dichloromethane acidified with 1% hydrochloric acid	286	90-44-8	Anthrone	168
62-56-6	Thiourea	698	75-12-7	Formamide	340	90-64-2	DL-Mandelic acid	446
62-76-0	Sodium oxalate	643	75-31-0	Isopropylamine	414	91-01-0	Benzhydrol	186
63-74-1	Sulfanilamide	673	75-47-8	Iodoform	399	91-20-3	Naphthalene	481
63-91-2	L-Phenylalanine	527	75-59-2	Tetramethylammmonium hydroxide 10%	695	91-22-5	Quinoline	584
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64-17-5	Ethanol 96°	314	75-75-2	Methanesulfonic acid	454	92-71-7	2,5-Diphenyloxazole	303
64-17-5	Ethanol 70% v/v	315	75-76-3	Tetramethylsilane	696	93-58-3	Methyl benzoate	462
64-17-5	Ethanol 60% v/v	316				94-13-3	Propyl p-hydroxybenzoate	579
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95-57-8	2-Chlorophenol	249	110-16-7	Maleic acid	445	124-41-4	Sodium methoxide 0.1 mol/l	641
96-47-9	2-Methyltetrahydrofuran	470	110-17-8	Fumaric acid	343	125-20-2	Thymolphthalein	701
97-00-7	2,4-Dinitrochlorobenzene	300	110-19-0	Isobutyl acetate	409	125-20-2	Thymolphthalein 0.1% hydroalcoholic solution	701
97-53-0	Eugenol	329	110-27-0	Isopropyl myristate	414	125-20-2	Thymolphthalein solution 0.1% in ethanol	701
98-09-9	Benzenesulfonyl chloride	186	110-54-3	n-Hexane 99%	361	126-33-0	Sulfolane	674
98-59-9	p-Toluenesulfonylchloride	711	110-54-3	n-Hexane	363	126-73-8	Tributylphosphate	712
98-86-2	Acetophenone	133	110-54-3	Hexane mixture of isomers	364	126-81-8	Dimedone	293
98-92-0	Nicotinamide	488	110-71-4	1,2-Dimethoxyethane	294	127-08-2	Potassium acetate	536
98-95-3	Nitrobenzene	497	110-82-7	Cyclohexane	269	127-09-3	Sodium acetate anhydrous	610
99-61-6	m-Nitrobenzaldehyde	497	110-86-1	Pyridine	580	127-18-4	Tetrachloroethylene	692
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100-09-4	Anisic acid	168	111-20-6	Sebacic acid	595	128-37-0	Butylhydroxytoluene	216
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100-51-6	Benzyl alcohol	188	111-46-6	Diethylene glycol	288	134-03-2	Sodium L-ascorbate	612
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10101-97-0	Nickel (II) sulfate hexahydrate	488	12125-02-9	Ammonium chloride	155	14808-60-7	Silicon dioxide	601
10102-05-3	Palladium nitrate 2 g/l solution	509	12125-02-9	Ammonium chloride solution 10%	156	14985-18-3	Zirconyl nitrate	745
10102-17-7	Sodium thiosulfate pentahydrate	656	12208-13-8	Potassium pyroantimonate acid	566	15191-80-7	Copper (II) pyrophosphate	264
10102-17-7	Sodium thiosulfate 1 mol/l (1N)	656	12208-13-8	Potassium pyroantimonate solution	567	15244-10-7	Iron (III) sulfate	407
10102-17-7	Sodium thiosulfate 0.5 mol/l (0.5N)	657	12230-71-6	Barium hydroxide octahydrate	181	15244-38-9	Chromium (III) sulfate	254
10102-17-7	Sodium thiosulfate 0.2 mol/l (0.2N)	657	12230-71-6	Barium hydroxide solution 5%	182	15699-18-0	Nickel (II) ammonium sulfate hexahydrate	486
10102-17-7	Sodium thiosulfate 0.1 mol/l (0.1N)	657	12230-71-6	Barium hydroxide solution 47.3 g/l	182	15708-48-2	Ethylenediaminetetraacetic acid potassium and magnesium salt dihydrate	326
10102-17-7	Sodium thiosulfate 0.0394 mol/l (0.0394N)	658	12501-23-4	Phosphotungstic acid	532	16423-68-0	Erythrosin extra B	310
10102-17-7	Sodium thiosulfate 0.01 mol/l (0.01N)	658	13011-54-6	Sodium ammonium hydrogen phosphate	612	16674-78-5	Magnesium acetate tetrahydrate	438
10102-25-7	Lithium sulfate monohydrate	434	13235-36-4	Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate	327	16731-55-8	Potassium metabisulfite	560
10102-40-6	Sodium molybdate dihydrate	641	13408-09-8	Sodium glycerophosphate pentahydrate	624	16774-21-3	Cerium (IV) ammonium nitrate	237
10112-91-1	Mercury (I) chloride	452	13419-61-9	1-Decanesulfonic acid sodium salt	273	16774-21-3	Cerium (IV) ammonium nitrate 0.1 mol/l	237
10124-56-8	Sodium hexametaphosphate	624	13435-12-6	n-Trimethylsilylacetamide	718	16774-21-3	Cerium (IV) ammonium nitrate 0.01 mol/l	237
10125-13-0	Copper (II) chloride dihydrate	263	13446-18-9	Magnesium nitrate hexahydrate	441	16788-57-1	Potassium phosphate dibasic trihydrate	565
10196-18-6	Zinc nitrate hexahydrate	741	13446-34-9	Manganese (II) chloride tetrahydrate	448	16893-85-9	Sodium hexafluorosilicate	624
10213-10-2	Sodium tungstate dihydrate	658	13455-21-5	Potassium fluoride dihydrate	549	16919-27-0	Potassium fluorotitanate	549
10213-10-2	Sodium tungstate solution 10%	658	13455-24-8	Potassium hydrogen iodate	550	16921-30-5	di-Potassium hexachloroplatinate	549
10277-43-7	Lanthanum nitrate hexahydrate	424	13463-67-7	Titanium dioxide	706	16940-66-2	Sodium borohydride	615
10294-26-5	Silver sulfate	607	13465-95-7	Barium perchlorate 0.05 mol/l	183	16961-25-4	Gold(III) chloride trihydrate	353
10294-26-5	Silver sulfate solution 0.7% in sulfuric acid	608	13465-95-7	Barium perchlorate 0.025 mol/l	183	17199-29-0	L(+)/Mandelic acid	446
10294-39-0	Barium perchlorate trihydrate	183	13472-35-0	Sodium phosphate monobasic dihydrate	648	17372-87-1	Eosin Y	308
10294-41-4	Cerium (III) nitrate hexahydrate	238	13472-36-1	Sodium pyrophosphate decahydrate	650	17372-87-1	Eosin Y 1% solution aqueous	308
10294-42-5	Cerium (IV) sulfate	239	13477-34-4	Calcium nitrate tetrahydrate	228	17372-87-1	Eosin Y 0.5% solution alcoholic	308
10294-42-5	Cerium (IV) sulfate 0.1 mol/l	239	13478-00-7	Nickel (II) nitrate hexahydrate	487	17629-30-0	Raffinose	585
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10326-27-9	Barium chloride dihydrate	180	13517-23-2	Sodium o-Phosphite pentahydrate	649	18472-87-2	Phloxin B	528
10326-27-9	Barium chloride solution 10%	180	13573-16-5	Reinecke salt	587	18497-13-7	Hexachloroplatinic acid hexahydrate	360
10326-27-9	Barium chloride solution 0.14%	180	13596-46-8	Cobalt (II) ammonium sulfate hexahydrate	257	20624-25-3	Sodium diethyldithiocarbamate trihydrate	622
10326-27-9	Barium chloride 0.1 mol/l (0.2N)	181	13598-36-2	Phosphonic acid	530	20667-12-3	Silver oxide	607
10326-27-9	Barium chloride 30g/L	181	13600-98-1	Sodium cobalt nitrite	621	20816-12-0	Osmium (VIII) oxide	505
10361-03-2	Sodium metaphosphate	641	13746-66-2	Potassium ferricyanide	547	21368-68-3	Camphor synthetic	233
10361-29-2	Ammonium carbonate	154	13746-66-2	Potassium ferricyanide solution 11%	547	21645-51-2	Aluminum hydroxide	141
10361-29-2	Ammonium carbonate solution 20%	154	13755-38-9	Sodium nitroprusside dihydrate	643	21666-38-6	Hexane-d14	365
10361-29-2	Ammonium carbonate solution 158 g/l	155	14014-06-3	Sodium hydroxide-d 1 30%	637	21908-53-2	Mercury (II) oxide red	453
10361-37-2	Barium chloride solution 61 g/l	181	14017-54-0	Holmium perchlorate in solution	368	22767-49-3	1-Pentanesulphonic acid sodium salt	514
10378-47-9	Cerium (IV) ammonium sulfate dihydrate	238	14335-33-2	Orthophosphoric acid-d3 85% in D2O	504	22767-50-6	1-Heptanesulphonic acid sodium salt	359
10378-47-9	Cerium (IV) ammonium sulfate 0.1 mol/l	238	14452-57-4	Magnesium peroxide	442	24493-21-8	3-Trimethylsilylpropionic acid sodium salt-d4	718
10378-47-9	Cerium (IV) ammonium sulfate 0.01 mol/l	238	14459-95-1	Potassium ferrocyanide trihydrate	547	24634-61-5	Potassium sorbate	568
10416-59-8	n,o-Bis(trimethylsilyl)acetamide	190	14459-95-1	Potassium ferrocyanide solution 10%	548	25102-12-9	Ethylenediaminetetraacetic acid dipotassium salt dihydrate	324
10450-60-9	Periodic acid	517	14459-95-1	Potassium ferrocyanide solution 53 g/l	548	25155-30-0	Dodecylbenzenesulphonic acid sodium salt	305
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11024-24-1	Digitonin	292	14533-63-2	1-Propanesulfonic acid sodium salt	577	25895-60-7	Sodium cyanoborohydride	621
11138-49-1	Sodium aluminate	612	14552-35-3	Cupriethylenediamine solution	269	26628-22-8	Sodium azide	613
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						35658-65-2	Cadmium chloride monohydrate	220

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Acido fluoridrico 50%	384	
Acido fluoridrico 47-51%	385	
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Acido formico 85%	341	
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Acido fosforico 99%	503	
Acido fosforico 85%	503	
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Acido fosforico 10%	504	
Acido fosforico-d3 85% in D2O	504	
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Acido DL-mandelico	446	
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Acido metafosforico	454	
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Acido alfa-metossifenilacetico	461	
Acido nicotinico	489	
Acido nitrico fumante 90%	491	
Acido nitrico 69,5%	491	
Acido nitrico 67-70%	492	
Acido nitrico 67-69%	493	
Acido nitrico 67.5% (42Be)	493	
Acido nitrico 65%	494	
Acido nitrico 18%	495	
Acido nitrico 8 mol/l (8N)	495	
Acido nitrico 7 mol/l (7N)	495	
Acido nitrico 2 mol/l (2N)	496	
Acido nitrico 1 mol/l (1N)	496	
Acido nitrico 0.1 mol/l (0.1N)	496	
Acido nitrico diluito	496	
Acido m-nitrobenzoico	498	
Acido nitrilotriacetico	497	
Acido 1-octansolfonico sale sodico	501	
Acido 1-octansolfonico sale sodico monoidrato	501	
Acido oleico	502	
Acido ossalico diidrato	506	
Acido ossalico 0.5 mol/l (1N)	506	
Acido ossalico 0.05 mol/l (0.1N)	506	
Acido ossalico 0.005 mol/l (0.01N)	507	
Acido 1-pentansolfonico sale sodico	514	
Acido 1-pentansolfonico sale sodico monoidrato	514	
Acido perclorico 65-71%	515	
Acido perclorico 65%	515	
Acido perclorico 60%	516	
Acido perclorico 0.1 mol/l (0.1N)	516	
Acido perclorico 0.1 mol/l (0.1N) in acido acetico	516	
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Acido solforico 98%	675	
Acido solforico d=1,820	686	
Acido solforico 96% (66°Bé)	677	
Acido solforico 96%	675	
Acido solforico 95 - 97 %	677	
Acido solforico 93-98%	678	
Acido solforico 90%	678	
Acido solforico 72%	679	
Acido solforico 69%	679	
Acido solforico 50%	679	
Acido solforico 35% (30°Bé)	679	
Acido solforico 25%	680	
Acido solforico 20%	680	
Acido solforico 10% v/v	680	
Acido solforico 4 mol/l (8N)	680	
Acido solforico 2.5 mol/l (5N)	681	
Acido solforico 1 mol/l (2N)	681	
Acido solforico 0.5 mol/l (1N)	681	
Acido solforico 0.33 mol/l (2N/3)	682	
Acido solforico 0.26 mol/l (0.52N)	682	
Acido solforico 0.25 mol/l (0.5N)	682	

# INDICE ALFABETICO

Acido solforico 0.166 mol/l (0.333N)	682	Alluminio cloruro esaidrato	140	Anilina cloridrato	167
Acido solforico 0.13 mol/l (0.26N)	683	Alluminio idrossido	141	Antimonio standard soluzione	168
Acido solforico 0.125 mol/l (0.25N)	683	Alluminio nitrato nonaidrato	141	Antimonio, polvere	168
Acido solforico 0.1 mol/l (0.2N)	683	Alluminio ossido	142	Antimonio potassio tartrato	169
Acido solforico 0.05 mol/l (0.1N)	683	Alluminio ossido attivo	143	Antimonio tricloruro	170
Acido solforico 0.025 mol/l (0.05N)	684	Alluminio ossido (acido)	142	Antrone	168
Acido solforico 0.02 mol/l (0.04N)	684	Alluminio ossido (basico)	142	Arancio acridina	134
Acido solforico 0.01 mol/l (0.02N)	684	Alluminio ossido (neutro)	143	Arancio G	502
Acido solforico 0.005 mol/l (0.01N)	684	Alluminio potassio solfato dodecaidrato	143	Arancio II	502
Acido solforico 0.0025 mol/l (0.005N)	685	Alluminio solfato	144	Arancio metile	467
Acido solforico, diluito	686	Amido solubile	666	Arancio metile soluzione 0.1%	467
Acido solfosalicilico	674	Amido solubile soluzione	667	Arancio xilenolo	733
Acido stearico	667	Amido di mais	444	Argento standard soluzione	601
Acido succinico	670	Amido di riso	589	Argento, lamina	602
Acido tannico	687	Amido nero 10B in soluzione	144	Argento, lana	602
Acido L(+)-tartarico	688	4-Amminofenazone	146	Argento acetato	603
Acido L(+)-tartarico soluzione 20% in acqua	689	m-Amminofenolo	146	Argento carbonato	603
Acido 2-tiobarbiturico	697	p-Amminofenolo	146	Argento cloruro	603
Acido tioglicolico 80%	698	Ammoniaca soluzione 32%	147	Argento dietilditiocarbammato	603
Acido p-toluensolfonico monoidrato	710	Ammoniaca soluzione 30%	147	Argento nitrato	604
Acido p-toluensolfonico sale sodico	710	Ammoniaca soluzione 28%	148	Argento nitrato soluzione 5%	604
Acido tricloroacetico	712	Ammoniaca soluzione 25%	148	Argento nitrato soluzione 2.9075%	604
Acido tricloroacetico soluzione 20%	713	Ammoniaca soluzione 20 - 22 %	149	Argento nitrato soluzione	607
Acido tricloroacetico soluzione 3% in dicloro- metano	713	Ammoniaca soluzione 17%	150	Argento nitrato 1 mol/l (1N)	605
Acido trifluoroacetico	715	Ammoniaca soluzione 10%	150	Argento nitrato 0.5 mol/l (0.5N)	605
Acido trifluoroacetico-d	716	Ammonio soluzione 6N	151	Argento nitrato 0.1 mol/l (0.1N)	605
Acido tungstico	723	Ammoniaca soluzione diluita	151	Argento nitrato 0.05 mol/l (0.05N)	606
Acido valerico	725	Ammonio standard soluzione	152	Argento nitrato 0.03 mol/l (0.03N)	606
Acqua	728	Ammonio acetato	152	Argento nitrato 0.025 mol/l (0.025N)	606
Acqua deionizzata acidificata	730	Ammonio bicarbonato	153	Argento nitrato 0.01 mol/l (N/100)	606
Acqua purificata	731	Ammonio bifluoruro	158	Argento ossido	607
Acqua + 0.1%(v/v) acido formico	730	Ammonio bromuro	153	Argento solfato	607
Acqua di bromo	198	Ammonio carbammato	154	Argento solfato 10 g/L in acido solforico	685
Acqua di calce	170	Ammonio carbonato	154	Argento solfato 6.6 g/l in acido solforico	685
Acqua di cloro	730	Ammonio carbonato soluzione 20%	154	Argento solfato soluzione 0.7% in acido solforico	608
Acquovitrex-Erba	170	Ammonio carbonato soluzione 158 g/l	155	L(+)-Arginina	170
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β-Alanina	137	Ammonio citrato soluzione 20%	157	Arsenazo III	171
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Ninidrina e stagno cloruro reattivo	490	Pomice	580	Potassio idrossido 0.5 mol/l (0.5N) in alcole metilico	555
Niobio standard soluzione	490	Porpora bromocresolo	200	Potassio idrossido 0.46 mol/l (0.46N)	556
Nital soluzione 4%	490	Porpora bromocresolo soluzione	200	Potassio idrossido 0.25 mol/l (0.25N)	556
Nitrati standard soluzione	490	Porpora bromocresolo soluzione 0.4% in etanolo	200	Potassio idrossido 0.23 mol/l (0.23N)	556
Nitriti standard soluzione	497	Porpora m-cresolo	267	Potassio idrossido 0.1 mol/l (0.1N)	556
Nitrobenzene	497	Potassio standard soluzione	535	Potassio idrossido 0.1 mol/l (0.1N) in alcole etilico	557
Nitroetano	498	Potassio (meta)-periodato	562	Potassio idrossido 0.1 mol/l (0.1N) in alcole metilico	557
p-Nitrofenolo	498	Potassio acetato	536	Potassio iodato	558
p-Nitrofenolo soluzione 0.1% in acqua	498	Potassio bicarbonato	537	Potassio iodato 0.05 mol/l	558
p-Nitroso-n,n-dimetilanilina	499	Potassio bicromato	544	Potassio iodato 0.0167 mol/l (0.1N)	558
Nonilfenolo etossilato 10 ETO	499	Potassio bicromato - Soluzione di acido solforico	545	Potassio iodato 0.00167 mol/l (0.01N)	558
<b>O</b>		Potassio bicromato 0.2829 g/l	546	Potassio iodato acido	550
Olio di legno cedro condensato	501	Potassio bicromato 0.1414 g/l	546	potassio iodobismutato soluzione	560
Olio di mandorla raffinato	501	Potassio bicromato 0.0167 mol/l (0.1 N)	545	Potassio ioduro	559
Olio di ricino	236	Potassio bicromato 0.0417 mol/l (0.25N)	545	Potassio ioduro soluzione 10%	559
Olio di vaselina	510	Potassio bicromato 0.04 mol/l (0.24N) in 80 g/l HgSO4	545	Potassio ioduro soluzione 3.9%	559
Olio d'immersione	392	Potassio bicromato soluzione 0.5%	546	Potassio ioduro soluzione	560
Olmio standard soluzione	367	Potassio bicromato soluzione 106 g/l	546	Potassio metabisolfito	560
Olmio ossido	368	Potassio bisolfato	537	Potassio nitrato	561
Olmio perclorato soluzione	368	Potassio bromato	538	Potassio nitrato 1 mol/l (1N)	561
Orceina	502	Potassio bromato 0.033 mol/l (0.198N)	538	Potassio nitrito	561
Oro standard soluzione	352	Potassio bromato 0.02 mol/l (0.12N)	538	Potassio ossalato monoidrato	562
Oro (III) cloruro triidrato	353	Potassio bromato 0.0167 mol/l (0.1N)	538	Potassio permanganato	562
Osmio standard soluzione	505	Potassio bromuro	539	Potassio permanganato soluzione 3%	564
Osmio tetrossido	505	Potassio carbonato	539	Potassio permanganato 0.2 mol/l (1N)	563
Osmolalità standard a base di proteine	505	Potassio citrato tribasico monoidrato	544	Potassio permanganato 0.02 mol/l (0.1N)	563
Osmolalità Standards	505	Potassio cloruro	540	Potassio permanganato 0.002 mol/l (0.01N)	564
Osmolalità Standards a base di urina	506	Potassio cloruro 3.5 mol/l (3.5N)	541	Potassio permanganato e acido fosforico soluzione	564
8-Ossichinolina	390	Potassio cloruro 3.5 mol/l (3.5N) e argento cloruro	541	Potassio persolfato	564
n-Ottano	500	Potassio cloruro 3 mol/l (3N)	541	Potassio piroantimoniato acido	566
<b>P</b>		Potassio cloruro 3 mol/l (3N) e argento cloruro	542	Potassio piroantimoniato soluzione	567
Palladio standard soluzione	508	Potassio cloruro 3 mol/l (3N) soluzione acqua-glicerina	542	Potassio pirofosfato	567
Palladio cloruro oso	508	Potassio cloruro 1 mol/l (1N)	542	Potassio pirogallato soluzione 14%	567
Palladio nitrato 2 g/L soluzione	509	Potassio cloruro 0.1 mol/l (0.1N)	542	Potassio pirosolfato	567
Papanicolaou Ematossilina soluzione secondo Harris	509	Potassio cloruro 0.01 mol/l (0.01N)	542	Potassio sodio tartrato tetraidrato	568
Papanicolaou soluzione EA 50	509	Potassio cloruro soluzione	543	Potassio solfato	568
Papanicolaou soluzione OG 6	510	Potassio cloruro soluzione 12g/l	541	Potassio solfocianuro	570
Paraffina 56°C-58°C Erbaplast (con DMSO)	510	Potassio cloruro soluzione 25g/l in acido cloridrico	540	Potassio solfocianuro 0.1 mol/l (0.1N)	570
Paraffina 56-58°C Erbaplast (senza DMSO)	510	Potassio cloruro soluzione satura	543	Potassio solfocianuro soluzione	571
Paraformaldeide	511	Potassio cromato	543	Potassio solfocianuro soluzione 5%	571
Pararosanilina soluzione, decolorata	511	Potassio cromato soluzione 5%	543	Potassio solfoquaiacolato	549
2,4-Pentandione	133	di-Potassio esacloroplatinato	549	Potassio sorbato	568
n-Pentano 99%	512	Potassio ferricianuro	547	Potassio tartrato	569
n-Pentano	513	Potassio ferricianuro soluzione 11%	547	Potassio tartrato acido	569
Pepsina HCl	514	Potassio ferricianuro soluzione 53 g/l	548	Potassio tellurito	570
Perossido di idrogeno soluzione 40% m/v	386	Potassio ferrocianuro triidrato	547	Potassio tetraiodomercurato soluzione alcalina	570
Perossido di idrogeno soluzione 30-32%	387	Potassio ferrocianuro soluzione 10%	548	Praseodimio standard soluzione	571
Perossido di idrogeno soluzione 30%	387	Potassio fluorotitanato	549	L(-)Prolina	572
Perossido di idrogeno soluzione 3.5% m/v	388	Potassio fluoruro	548	Propan-1-olo	572
Perossido di idrogeno soluzione 3%	389	Potassio fluoruro biidrato	549	Propan-2-olo	573
Petrolio	518	Potassio fosfato bibasico anidro	565	Propan-2-olo 70%	576
Piombo standard soluzione	425	Potassio fosfato bibasico triidrato	565	1,3-Propandiolo	577
Piombo	426	Potassio fosfato monobasico	566	n-Propile acetato	578
Piombo acetato soluzione 95 g/l	426	Potassio fosfato monobasico 0.2 mol/l (0.2N)	566	Propile p-ossibenzoato	579
Piombo di-acetato triidrato	427	Potassio ftalato acido	550	Propilene carbonato	579
Piombo nitrato 0.1 mol/l	428	Potassio ftalato acido 0.2 mol/l (0.2N)	551	Punto di fusione standard	472
Piombo nitrato 0.05 mol/l	428	Potassio ftalato acido 0.1 mol/l (0.1N)	551	<b>Q</b>	
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Piombo acetato basico	426	Potassio idrossido, scaglie	551	<b>R</b>	
Piombo acetato basico soluzione	426	Potassio idrossido soluzione 45%	553	Raffinosio	585
Piombo biossido	429	Potassio idrossido soluzione 38% (40° Bé) in acqua	553	Rame standard soluzione	260
Piombo nitrato	428	Potassio idrossido soluzione 28%	553	Rame elettrolitico lastra ricotto	261
Piombo ossido	429	Potassio idrossido soluzione 3% in etanolo	553	Rame elettrolitico, filo	261
Piombo solfato	429	Potassio idrossido 2 mol/l (2N) in etanolo	554	Rame elettrolitico, tornitura	261
Piperidina	534	Potassio idrossido 1 mol/l (1N)	554	Rame ridotto, polvere	261
1-(2-Piridile-azo)-2-naftolo	581	Potassio idrossido 0.5 mol/l (0.5N)	554	Rame acetato ico idrato	262
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Rame nitrato ico triidrato	264	Sodio alginato	611	Sodio idrossido soluzione, metanolica	631
Rame ossido ico	264	Sodio alluminato	612	Sodio idrossido su silice	627
Rame solfato ico anidro	265	Sodio ammonio idrogeno fosfato	612	Sodio idrossido-d 1 mol/l	637
Rame solfato ico soluzione 12.5%	266	Sodio arsenito 0.1 mol/l (0.2N)	612	Sodio idrossido-d 30%	637
Rame solfato ico pentaidrato	265	Sodio arsenito 0.05 mol/l (0.1N)	613	Sodio ioduro	639
Rame carbonato basico ico	262	Sodio L-ascorbato	612	Sodio ipoclorito soluzione 12.5%	638
Rame cloruro oso	262	Sodio azide	613	Sodio ipoclorito soluzione in acqua	638
Rame cloruro oso soluzione 7% in ammoniaca	263	Sodio benzoato	613	Sodio ipofosfito	639
Rame ioduro oso	263	Sodio bicarbonato	614	Sodio laurilsolfato	639
Rame pirofosfato	264	Sodio bisolfato monoidrato	614	Sodio metabisolfato	640
Rame tetrammina soluzione ammoniacale	151	Sodio boridruro	615	Sodio metafosfato	641
L(+)-Ramnosio	587	Sodio bromuro	615	Sodio (meta)-periodato	640
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Reattivo iodoplatinato	399	Sodio carbonato monoidrato	617	Sodio molibdato diidrato	641
Reattivo molibdovanadico	476	Sodio carbonato decaidrato	616	Sodio nitrato	642
Reattivo solfomolibdico	674	Sodio carbonato 0.5 mol/l (1N)	618	Sodio nitrito	642
Reattivo TAN	585	Sodio carbonato 0.05 mol/l (0.1N)	618	Sodio nitrito 0.1 mol/l (0.1N)	643
Reattivo TBN	586	Sodio carbonato soluzione 20%	617	Sodio nitrito 500 g/l soluzione	643
Reattivo titanio tricloruro-acido solforico	707	Sodio carbonato soluzione	618	Sodio nitroprussiato diidrato	643
Reattivo unico per lipolisi	585	Sodio cianoboroidruro	621	Sodio ossalato	643
Renio standard soluzione	588	Sodio citrato bibasico	620	Sodio perborato tetraidrato	644
Resorcina	587	Sodio citrato tribasico anidro	620	Sodio perclorato monoidrato	644
Rhodol soluzione	588	Sodio citrato tribasico biidrato	620	Sodio perossido	645
Riboflavina	589	Sodio citrato tribasico diidrato	621	Sodio persolfato	645
D(-)-Ribosio	589	Sodio cloruro	618	Sodio persolfato 1 mol/l	645
Rodio standard soluzione	588	Sodio cloruro 5 mol/l (5N)	619	Sodio pirofosfato decaidrato	650
Rosso alizarina	136	Sodio cloruro 0.1 mol/l (0,1N)	620	Sodio salicilato	650
Rosso chinaldina	584	Sodio cobalto nitrito	621	Sodio silicato	650
Rosso Congo	259	Sodio dicloroisocianurato biidrato	622	Sodio solfato anidro	651
Rosso Congo soluzione	259	Sodio dietilditiocarbammato triidrato	622	Sodio solfato decaidrato	652
Rosso fenolo	525	Sodio esafluorosilicato	624	Sodio solfito anidro	653
Rosso fenolo soluzione 0,2% in alcole etilico	525	Sodio esametafosfato	624	Sodio solfocianuro	653
Rosso fenolo soluzione	525	Sodio fluoruro	622	Sodio solfuro nonaidrato	652
Rosso metile	469	Sodio formiato	623	Sodio solfuro nonaidrato soluzione	653
Rosso metile soluzione	469	Sodio fosfato bibasico	647	Sodio succinato esaidrato	651
Rosso metile soluzione 0,2% in alcole etilico	469	Sodio fosfato bibasico anidro	646	Sodio tartrato diidrato	654
Rosso metile soluzione 0,1% in alcole etilico	469	Sodio fosfato bibasico biidrato	646	Sodio tartrato acido	625
Rosso neutro	485	Sodio fosfato bibasico dodecaidrato	647	Sodio tetraborato anidro	654
Rosso o-cresolo	266	Sodio fosfato monobasico biidrato	648	Sodio tetraborato decaidrato	654
Rosso o-cresolo soluzione 0,2% in alcole etilico	267	Sodio fosfato monobasico monoidrato	648	Sodio tetrafenilborato	655
Rosso per olio O	586	Sodio fosfato tribasico dodecaidrato	649	Sodio tiosolfato anidro	655
Rosso Ponceau BS	535	Sodio o-fosfito pentaidrato	649	Sodio tiosolfato pentaidrato	656
Rosso Ponceau S	535	Sodio glicerofosfato pentaidrato	624	Sodio tiosolfato 1 mol/l (1N)	656
Rosso solido nucleare	499	Sodio gluconato	623	Sodio tiosolfato 0.5 mol/l (0.5N)	657
Rubidio standard soluzione	590	Sodio glutammato acido	623	Sodio tiosolfato 0.2 mol/l (0.2N)	657
Rutenio standard soluzione	591	Sodio idrosolfito	625	Sodio tiosolfato 0.1 mol/l (0.1N)	657
<b>S</b>		Sodio idrossido, gocce	626	Sodio tiosolfato 0.0394 mol/l (0.0394N)	658
Sabbia di Fontainebleau	593	Sodio idrossido, perline	626	Sodio tiosolfato 0.01 mol/l (0.01N)	658
Sabbia purificata	594	Sodio idrossido soluzione 50%	627	Sodio tungstato diidrato	658
D(+)-Saccarosio	671	Sodio idrossido soluzione 40%	627	Sodio tungstato soluzione 10%	658
Safranina T	592	Sodio idrossido soluzione 35-37%	628	Solfanilammide	673
Safranina T soluzione idroalcolica per kit	592	Sodio idrossido soluzione 35%	628	Solfati standard soluzione	673
Gram-Hucker		Sodio idrossido soluzione 32%	628	Solfito standard soluzione	674
Salda d'amido soluzione 1%	666	Sodio idrossido soluzione 30%	629	Soluzione ADF	134
Sale di Reinecke	587	Sodio idrossido soluzione 20% p/p	630	Soluzione NDF	482
Salicilaldeide azina	592	Sodio idrossido soluzione 20% p/v	629	Soluzione NDF PLUS	483
Samaro standard soluzione	593	Sodio idrossido soluzione 10% p/v	630	Soluzione ossido di etilene	328
Sapone soluzione in alcole etilico	608	Sodio idrossido soluzione 5% p/v	630	Soluzione Redox 220 mV a 25°C	586
Saponina	594	Sodio idrossido 5 mol/l (5N)	632	Soluzione Redox 468 mV a 25°C	586
Scandio standard soluzione	594	Sodio idrossido 3 mol/l (3N)	632	Soluzione standard da 1.30 µS/cm	660
Schiff reattivo per colorazione PAS	595	Sodio idrossido 2 mol/l (2N)	633	Soluzione standard da 5 µS/cm	661
Schiff reattivo soluzione per Aldedi	595	Sodio idrossido 2.5 mol/l (2.5N)	632	Soluzione standard da 10 µS/cm	661
Selenio standard soluzione	596	Sodio idrossido 1.2 mol/l (1.2N)	633	Soluzione standard da 20 µS/cm	661
Selenio, polvere	597	Sodio idrossido 1 mol/l (1N)	633	Soluzione standard da 50 µS/cm	661
Selenio biossido	597	Sodio idrossido 0.7 mol/l (N/1.4)	634	Soluzione standard da 84 µS/cm	662
Setacci molecolari 4 A	475	Sodio idrossido 0.5 mol/l (N/2)	634	Soluzione standard da 100 µS/cm	662
Setacci molecolari 3 A	475	Sodio idrossido 0.357 mol/l (0.357N)	635	Soluzione standard da 147 µS/cm	662
Setacci molecolari 3 A deuterati	475	Sodio idrossido 0.25 mol/l (N/4)	635	Soluzione standard da 200 µS/cm	662
Silicio standard soluzione	600	Sodio idrossido 0.2 mol/l (N/5)	635	Soluzione standard da 500 µS/cm	662
Silicio biossido	601	Sodio idrossido 0.1 mol/l (N/10)	636	Soluzione standard da 1000 µS/cm	662
Sodio standard soluzione	609	Sodio idrossido 0.1 mol/l (N/10) in etanolo	637	Soluzione standard da 1413 µS/cm	663
Sodio, metallico	610	Sodio idrossido 1/9 mol/l (N/9)	636	Soluzione standard da 5000 µS/cm	663
Sodio acetato anidro	610	Sodio idrossido 0.01 mol/l (N/100)	637	Soluzione standard da 10000 µS/cm	663
Sodio acetato triidrato	611	Sodio idrossido 200g/l	631	Soluzione standard da 12880 µS/cm	663
		Sodio idrossido 40g/l	631	Soluzione standard da 20000 µS/cm	664
		Sodio idrossido soluzione	631	Soluzione standard da 50000 µS/cm	664

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Soluzione standard da 100000 µS/cm	664	Tampone pH 7.2	208	Trifluoroetano-2	717
Soluzione standard da 150000 µS/cm	664	Tampone pH 7.20 secondo Weise	208	Trimetilammina cloridrato	717
Soluzione standard da 200000 µS/cm	665	Tampone pH 7.4	208	Trimetilacetilammonio bromuro	717
Soluzione standard da 300000 µS/cm	665	Tampone pH 8	208	Trimetilcetilammonio p-toluensolfonato	718
Soluzione standard da 350000 µS/cm	665	Tampone pH 9	209	n-Trimetilsililacetammide	718
Soluzione standard da 450000 µS/cm	665	Tampone pH 9.22	209	n,o-Bis (trimetilsilil)acetammide	190
Soluzione standard da 500000 µS/cm	666	Tampone pH 10	210	3-Trimetilsililpropionato sodico-d4	718
Soluzione titolante	707	Tampone pH 10.06	210	n,o-Bis (trimetilsilil)trifluoroacetammide	190
Soluzioni primarie per il grado di colorazione dei liquidi	572	Tampone pH 11	211	Triottilfosfina ossido	718
Soluzioni standard per il grado di colorazione dei liquidi	666	Tampone pH 12	211	2,4,6-(Tripiridile-2)-s-triazina	719
Solvente Plus	659	Tampone pH 13	211	Tris idrossimetilamminometano cloridrato	721
D-Sorbitolo	660	Tampone tris(idrossimetil)aminometano - EDTA pH 7.4	720	Tris idrossimetilamminometano	719
Sorbitolo	659	Tampone tris(idrossimetil)aminometano sodio cloruro pH 7.4	721	Tris idrossimetilamminometano soluzione	720
Sorbitolo (non cristallizzabile) soluzione 70%	659	Tampone tris(idrossimetil)aminometano tampn soluzione pH 8.1	720	Triton® X100 soluzione	721
Sospensione primaria di opalescenza	571	Tantalio standard soluzione	687	Tropeolina O	721
Stagno standard soluzione	702	Tartrazina	689	Tropeolina O soluzione 0,1%	722
Stagno, polvere	703	Tauber reattivo	689	Tubi 10 mm	722
Stagno cloruro oso diidrato	703	Taurina	689	Tubi 5 mm	722
Stagno cloruro oso soluzione 10%	704	Tellurio standard soluzione	690	Tulio standard soluzione	699
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# Shuttle Service

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- Improved safety
- Environmental impact
- Quality preserved
- Efficient Logistic



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## A

Absorbant pour liquides répandus	117	Acide chlorhydrique 0.5 mol/l (0.5N)	380	Acide nitrilotriacétique	497
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Acétamide	117	Acide chlorhydrique 0.2 mol/l (0.2N) dans propanol-2	380	Acide nitrique 69.5%	491
Acétanilide	117	Acide chlorhydrique 0.1 mol/l (0.1N)	381	Acide nitrique 67-70%	492
Acétone	126	Acide chlorhydrique 0.1 mol/l (0.1N) dans l'éthanol	381	Acide nitrique 67-69%	493
Acétone-d6	129	Acide chlorhydrique 0.1 mol/l (0.1N) dans propanol-2	382	Acide nitrique 67.5% (42Be)	493
Acétonitrile	129	Acide chlorhydrique 0.0714 mol/l (N/14)	382	Acide nitrique 65%	494
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Acétonitrile + 0.1% v/v d'acide formique	132	Acide chlorhydrique 0.02 mol/l (0.02N)	382	Acide nitrique 8 mol/l (8N)	495
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Acido orto-fosforico 85%	503	
Acido orto-fosfórico 75%	504	
Acido orto-fosfórico 10%	504	
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Acido oxálico 0.05 mol/l (0.1N)	506	
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Acido perclórico 65%	515	
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Acido sulfúrico 96% (66°Bé)	677	
Acido sulfúrico 96%	675	
Acido sulfúrico 95 - 97 %	677	
Acido sulfúrico 93-98%	678	
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Acido sulfúrico 69%	679	
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Acido sulfúrico 2.5 mol/l (5N)	681	Aluminio cloruro anhidro	140	Anhídrido molibdénico	476
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Acido sulfúrico 0.5 mol/l (1N)	681	Aluminio hidróxido	141	Anhídrido trifluoroacético	716
Acido sulfúrico 0.33 mol/l (2N/3)	682	Aluminio nitrato nonahydrate	141	Anilina clorhidrato	167
Acido sulfúrico 0.26 mol/l (0.52N)	682	Aluminio óxido	142	Antimonio, solución patrón	168
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Acido sulfúrico 0.166 mol/l (0.333N)	682	Aluminio óxido (básico)	142	Antimonio tricloruro	170
Acido sulfúrico 0.13 mol/l (0.26N)	683	Aluminio óxido (neutro)	143	Antimonio y potasio tartrato	169
Acido sulfúrico 0.125 mol/l (0.25N)	683	Aluminio óxido activo	143	Antrona	168
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Acido sulfúrico 0.025 mol/l (0.05N)	684	Aluminio y potasio sulfato dodecahidrato	143	Arena purificada	594
Acido sulfúrico 0.02 mol/l (0.04N)	684	Amarillo Clayton	256	L(+)-Arginina	170
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Acido L(+)-tartárico solución 20% en agua	689	Amonio bicarbonato	153	Ausilab 260	174
Acido 2-tiobarbitúrico	697	Amonio bicarbonato	158	Ausilab 280	174
Acido tioglicólico 80%	698	Amonio bifluoruro	153	Ausilab 290	174
Acido p-toluenosulfónico	710	Amonio bromuro	153	Ausilab 310	175
Acido p-toluenosulfónico sal sódica	710	Amonio carbonato	154	Ausilab 320	175
Acido alfa-trans-crotonico	267	Amonio carbonato solución 20%	154	Ausilab 330	175
Acido tricloroacético	712	Amonio carbonato solución 158 g/l	155	Ausilab 400	175
Acido tricloroacético solución 20%	713	Amonio cloruro	155	Ausilab 500	176
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Agua	728	Amonio hidróxido 32%	147	Azul de alcali 6B	137
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Agua + 0.1%(v/v) acido fórmico	730	Amonio hidróxido 28%	148	Azul de alcian 8GS 1%	135
Agua de bromo	198	Amonio hidróxido 25%	148	Azul de alcian 8GX	136
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Alcohol bencílico	188	Amonio Hierro II sulfato 0.12N	404	Azul de bromotimol solución	203
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Alcohol isoamílico	408	Amonio molibdato solución 2.5% en acido nítrico	160	Azul de metileno solución 1%	465
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Aldehído anísico solución	167	Amonio oxalato monohidrato	161	Azul de metiltimol sal sódica	471
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Almidón en pasta solución 1%	666	Amonio sulfocianuro	165	Azul de toluidina	711
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