

ThermoFisher SCIENTIFIC

Find the perfect chemicals
for your analytical applications

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Excellence in Packaging through Innovation

The Fisher Chemical* portfolio comes in a wide variety of innovative packaging designed for safety, environmental protection, convenient handling and storage, and preservation of product integrity. Our packaging is compliant with all government regulations.

Plastic Bottles – Safety and Convenience Available when chemical properties are compatible to minimize the risk of breakage, provide lighter weight packaging and enable more economical shipping.

Amber Glass Bottles – Quality and Reliability Used to package photosensitive chemicals, to protect them from light.

Safe-Cote* PVC-Coated Bottles – Safety These tough bottles provide the purity of glass and most of the benefits of plastic for storing and dispensing of solvents and acids. If the bottle breaks, glass fragments and liquids are more likely to remain trapped.

Aluminum Cans – Quality and Reliability Designed to contain ethers, Fisher Chemical 1L and 4L aluminum cans feature a round, seamless construction, which reduces the possibility of leakage through a seam.



Lock in Quality and Safety with Fisher Chemical Products

Fisher Chemical products are now packaged with the innovative, new Fisher LOCK Cap, designed to help maintain the highest standards in product quality and chemical safety practices. With an exclusive color-coded design (patent pending), the Fisher LOCK Cap is engineered to lock to the transfer bead of the bottle when applied during manufacturing to a filled bottle of laboratory chemicals. The cap design includes an interior ring, visible from various angles, which offers resistance until separated from the cap when opened.

The presence and location of that ring imparts tamper evidence to the configuration — without the drawbacks and complications of a plastic seal over the cap. The Fisher LOCK Cap is easy-to-use, and supports product quality, reliability of use and safety-in-use of the chemical products you purchase.



The Fisher LOCK Cap LOCKS in Quality, Safety, Reliability and Convenience:

QUALITY

- Provides a tight, tamper-evident, secure seal to ensure chemical contents arrive fresh and unopened
- Eliminates polyethylene glycol contamination that is possible with a plastic overseal

SAFETY

- Caps are designed to resist back-off during transport, reducing risk of leakage
- Color-coded rings indicate storage requirements and hazard categories, and enhance proper recognition, handling and storage, even before the bottle is removed from the case

RELIABILITY

- Rigorously tested for chemical compatibility
- Bottle threads are unchanged, allowing you to continue to attach the opened bottle to standard equipment

CONVENIENCE

- Cap design facilitates correct initial torque application during manufacturing, thus eliminating caps that may be hard to twist open
- Larger ridges on the exterior of the cap make it easier to open
- Caps readily reseal after initial opening

The Fisher Chemical portfolio of high-purity solvents comprises more than 600 solvents suited to a wide range of laboratory applications, from LC/MS to HPLC to gas chromatography to spectrophotometry.

Manufactured in ISO 9001:2008-certified facilities, each Fisher Chemical solvent undergoes rigorous quality assurance and testing measures that ensure excellent lot-to-lot and bottle-to-bottle consistency.

Grade	Definition	Application	Certificate of Analysis
UHPLC Gradient grade	Solvent certified for UHPLC analysis with high UV transmission. Low background noise at 210nm and 254nm. Filtered at 0.1µm for ultra low particulates.	UHPLC-UV	Provided with each shipment
Optima* LC/MS	Solvents and additives of exceptionally high purity specially designed and use-tested on LC/MS instruments. Solvents impurity levels in ppb.	LC/MS, HPLC, GC and spectrophotometry	Provided with each shipment
Optima	Acids and solvents of extremely high purity. Acids are analyzed for 65 metals by ICP/MS; impurity levels in ppt. Solvent impurity levels in ppm. UV absorbance curves and sample chromatograms available on request. For Optima acids, a typical lot analysis is given in the catalog. Impurity evels in an actual lot received may vary from the amount listed.	HPLC, GC, plasma/ICP, spectrophotometry, and pesticide residue analysis	Provided with each shipment
GC Resolv*	Solvents with the highest purity and lot-to-lot consistency. Free of contaminants to the ppb level, including those listed in Contract Laboratory Program Target Compound List. Meet ACS specifications. Chromatogram available on request	Gas Chromatography (GC)	Provided with each shipment
HPLC	Solvents manufactured specifically for use with HPLC instruments. Meet all ACS specifications. Submicron filtered.	HPLC and spectrophotometry procedures	Available on request
Certified ACS Plus	Acids that, in addition to meeting or exceeding the latest specifications of the ACS, are analyzed for more than 16 metals. Actual lot analysis on label.	Analytical applications with tighter metal specifications	Available on request
Certified ACS	Reagent chemicals that meet or exceed the latest ACS Specifications. Actual lot analysis on label.	Analytical applications requiring tight specifications	Available on request
Certified	Reagent chemicals for which the purity standard is established by Fisher Scientific. Purity is guaranteed to meet published maximum limits of impurities.	General analytical procedures	Available on request
Ultra Trace Elemental Analysis	Solvents manufactured for use with plasma/ICP instruments. Impurity levels in ppt. Packaged in acid-cleaned polyethylene bottles.	Plasma/ICP, environmental testing, trace- metal analysis	Available on request
Environmental Grade	Solvents for use in HPLC analysis, trace-organic analysis, and environmental testing. Packaged in precleaned glass bottles in M3.5 (Class 100) cleanroom. Shipped with Certificate of Analysis.	HPLC, trace-organic analysis, environmental testing	Provided with each shipment
Pesticide	Solvents for use in analysis of pesticide residue. Meet or exceed ACS standards of purity for pesticide residue analysis.	GC with electron capture detector (ECD), pesticide residue analysis	Available on request
USP/NF/FCC/ EP/ BP/JP	Reagent chemicals that meet or surpass specifications of the United States Pharmacopeia (USP), the National Formulary (NF), the Food Chemicals Codex (FCC), the European Pharmacopeia (EP), the British Pharmacopeia (BP) and/or the Japanese Pharmacopeia (JP).	Food and drug laboratories, biological testing	20L or greater; 10kg or greater
Spectranalyzed*	Solvents for use in spectrophotometry. Also meet ACS specifications. Actual lot analysis on label.	Ultraviolet and visible wavelength detectors (UV-Vis)	Available on request
Biotechnology	Solvents and reagents that have been specially purified and assayed for biotechnology applications.	Electrophoresis, molecular biology, sequencing, and peptide and oligonucleotide synthesis	Available on request
Scintanalyzed*	Solvents, fluors and prepared cocktails for liquid scintillation counting. Includes nonflammable, nontoxic, biodegradable ScintiSafe* cocktails.	Liquid scintillation counting	Available on request
Electronic	Solvents manufactured to ensure low levels of metal contamination. Meet Semiconductor Equipment and Materials Institute (SEMI) requirements. Actual lot analysis on label.	Electronics and circuit board manufacturing	Available on request
TraceMetal*	Acids manufactured to achieve low metal contamination measurable in ppm to ppb range. Each lot is analyzed for more than 55 metals by ICP/MS. For TraceMetal acids, a typical lot analysis is given in the catalog. Impurity levels in an actual lot received may vary from amountslisted	Primarily used in digestion of samples prior to instrument (ICP) analysis	Provided with each shipment
Histology	Solvents and products that are specially prepared for use in the histology laboratory setting. Solvents are filtered for tissue processing applications.	Tissue processing, clinical or histology procedures	Available on request
Laboratory and Technical	Chemicals of reasonable quality and purity for use in procedures where no official standards are required.	Manufacturing and general laboratory use	Available on request
SQ	Special Quality Chemicals	general laboratory use	Available Online
ExcelR	Excellent Analytical Reagents	It is the ideal quality for laboratory purposes. Batch to batch reproducibility is specially controlled to guarantee consistent analytical results	Available Online
HPLC	Product range is specially made for High Performance Liquid Chromatography	hey are used for preparative, isocratic or gradient mode.	Available Online
EL	Solvents manufactured to ensure low levels of metal contamination	Electronics and circuit board manufacturing	Available Online
GC HS	Gas Chromatography Head Space Solvents	These solvents are used for the analysis of volatile (OVI) and semi-volatile organics in solid, liquid and gas samples	Available Online

Fisher Chemical High Purity Solvents Selection Guide

Solvent	UV Cutoff (nm)	Boiling Point (°C)	Density (g/mL, 25°C)	Refractive Index (25°C)	"Melting Point (°C)"	"Polarity Index (P')"	"Eluotropic Value on Silica (D°)"	"Viscosity (cP, 20°C)"	Flash Point (°C)	Mol. Wt.
Acetone	330	56.1	0.7857	1.3568	-94.3	5.1	0.53	0.36	20	58.08
Acetonitrile	190	81.6	0.7780	1.3415	-50.0	5.8	0.52	0.36	2	41.05
1-Butanol	215	117.7	0.8098	1.3972	-88.6	3.9	----	2.98	35	74.12
Chloroform	245	61.7	1.4840	1.4445	-63.3	4.1	0.26	0.58	none	119.38
Cyclohexane	202	80.7	0.7740	1.4247	-6.5	0.2	0.03	0.90	-20	84.16
N, Ndimethyloformamide	268	153.0	0.9440	1.4280	-61.0	6.4	----	0.92	58	73.09
Dimethyl Sulfoxide	262	189.0	1.1014	1.4783	18.5	7.2	----	2.24	87.8	78.13
Ethyl Acetate	255	77.1	0.8940	1.3695	-83.9	4.4	0.38	0.45	-4	88.11
Ethyl Ether	218	34.6	0.7134	1.3500	-116.3	2.8	0.43	0.24	-45	74.12
Glycerol	205	290.0	1.2613	1.4746	18.2	----	----	----	193	92.09
Heptane	197	98.4	0.6838	1.3855	-90.6	0.2	0.01	0.40	-4	100.20
Hexanes	195	69.0	0.6630	1.3759	-95.3	0.1	0.01	0.31	-23	86.18
Isooctane	205	99.2	0.6919	1.3895	109.5	0.1	0.01	0.50	28	114.23
Methanol	205	64.7	0.7915	1.3288	-97.8	5.1	0.73	0.55	12	32.04
Methylene Chloride	233	39.5	1.318	1.4215	96.7	3.1	0.32	0.30	N/A	84.93
N-Methylpyrrolidinone	275	202.2	1.03	1.469	-24.4	----	----	1.67	95	99.13
Pentane	190	36.1	0.6264	1.3555	-129.7	0.0	0.00	0.22	-49	72.15
Petroleum Ether	----	35-60	0.6400	1.3610	----	0.1	----	----	-18	----
2-Propanol	205	82.3	0.7855	1.3772	-90.0	3.9	0.63	2.40	-12	60.10
Tetrahydrofuran	210	66.1	0.8892	1.4060	-108.3	4.0	0.35	0.55	0.55 -14	72.11
Toluene	285	110.6	0.8660	1.4940	-95.0	2.4	0.22	0.59	-4	92.14
Water	----	100.0	0.9982	1.3330	0.0	10.2	----	1.00	N/A	18.02

HPLC Solvents

HPLC Solvents are free from UV absorbing impurities and ensure consistent result in gradient analysis. Ideal for Gradient analysis in various industries such as Pharmaceutical, Biotechnology, Chemical industry and others.



Features:

- Noise free baseline and minimum drift
- Consistent result in HPLC & UHPLC
- Exhibits smaller peak impurities in the gradient chromatogram
- High UV transmission on lower wavelength

Product Code	Product Description	Pack Size
Q43516	1,4 Dioxan HPLC 1L	1 LT
Q43006	Acetic Acid Glacial For HPLC 1L	1 LT
Q43007	Acetic Acid Glacial For HPLC 2.5L	2.5L
Q44106	Acetone HPLC 1L	1 LT
Q4400SP	Acetonitrile HPLC Gradient Grade 2.5L	2.5 LT
Q43106	n-Butanol HPLC 1L	1 LT
Q43316	Chloroform HPLC 1L	1 LT
Q43406	Cyclohexane HPLC 1L	1 LT
Q43506	Dichloromethane HPLC 1L	1 LT
Q43456	Diethylamine HPLC 1L	1 LT
Q43496	N.N. Dimethylacetamide HPLC 1L	1 LT
Q43486	Dimethyl Sulphoxide HPLC 1L	1 LT
Q43546	Dimethylformamide HPLC 1L	1 LT
Q43516	1,4 Dioxan HPLC 1L	1 LT
Q43536	Ethyl Acetate HPLC 1L	1 LT
Q43586	Hexane For HPLC 1L	1 LT
Q43587	Hexane For HPLC 2.5L	2.5 LT
Q43576	n-Heptane HPLC 1 LIT	1 LT
Q43616	n-Hexane HPLC	1 LT
Q43617	n-Hexane HPLC 2.5L	2.5 LT
Q43596	Iso Octane HPLC 1L	1 LT
Q43566	Iso propyl Alcohol HPLC 1L	1 LT
Q43567	Iso propyl Alcohol HPLC 2.5L	2.5 LT
Q43607	Methanol HPLC 2.5L	2.5 LT
Q43637G	Methanol HPLC Gradient Grade 2.5L	2.5 LT
Q43666	1-Methyl 2-Pyrrolidone HPLC 1L	1 LT
Q43626	Orthophosphoric Acid HPLC 1L	1 LT
Q43526	Petroleum Spirit 40-60 HPLC 1L	1 LT
Q43086	Tert Butyl Alcohol HPLC 1L	1 LT
Q43096	Tert Butyl Methyl Ether HPLC 1L	1 LT
Q44706	Tetrahydrofuran HPLC 1L	1 LT
Q44716	Tetrahydrofuran Unstabilized for HPLC	1 LT
Q43976	Toluene HPLC 1L	1 LT
Q43946	Triethylamine HPLC 1L	1 LT
Q43942	Triethyl amine for Chromatography 50 ml	50 ML
Q28462	Trifluoroacetic Acid for Chromatography	50 ML
Q28469	Trifluoroacetic Acid for Chromatography	10 x 2ml vials
Q43956	Water HPLC 1L	1 LT

Ion Pairing Reagents

UV Tested

Perfect Resolution of Ionic Compounds

- Highest Purity (99.9%)
- Excellent Solubility
- Controlled pH



Product Code	Product Description	Pack Size
Q18562	1-Butane Sulphonic Acid Anhyd.HPLC 25G	25 GM
Q18572	1-Butane Sulphonic Acid Monohyd.HPLC 25G	25 GM
Q18592	1-Decane Sulfonic Acid Anhydr.HPLC 25G	25 GM
Q18672	1-Heptane Sulphonic Acid Anhyd.HPLC 25G	25 GM
Q18652	1-Heptane Sulphonic Acid Monohyd.HPLC25G	25 GM
Q18682	1-Hexane Sulphonic Acid Anhyd.HPLC 25G	25 GM
Q18662	1-Hexane Sulphonic Acid Monohyd.HPLC 25G	25 GM
Q19012	1-Octane Sulphonic Acid Anhyd.HPLC 25G	25 GM
Q19002	1-OCtane Sulphonic Acid Monohyd.HPLC 25G	25 GM
Q19262	1-Pentane Sulphonic Acid Anhyd.HPLC 25G	25 GM
Q19192	1-Pentane Sulphonic Acid Monohyd.HPLC25G	25 GM

HPLC Buffer Salts

For sharp Symmetrical Peaks

- High Purity
- Low UV Absorbance
- Stringent Limits on Metallic Impurities



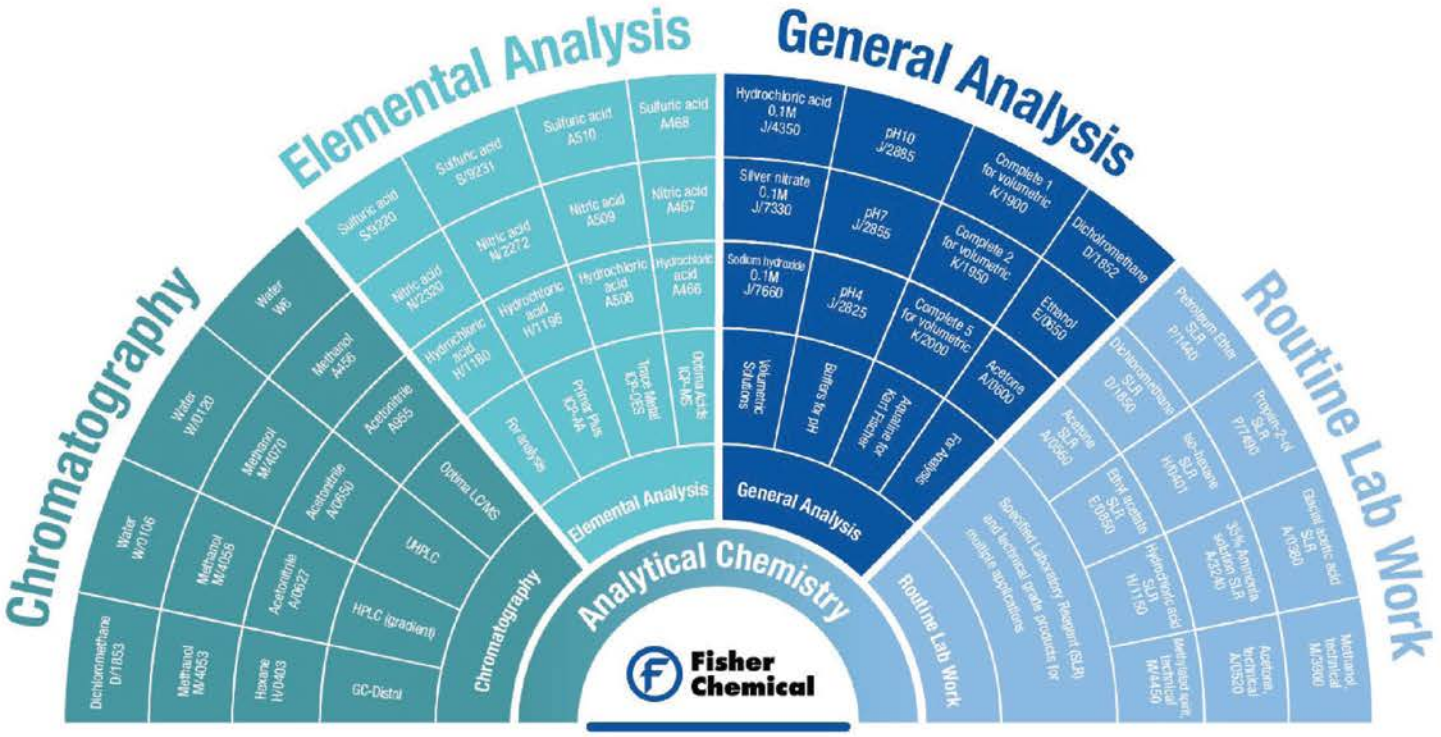
Product Code	Product Description	Pack Size
Q11155	Ammonium Acetate HPLC500G	500 GM
Q11195	Ammonium Dihydrogen ophosphate HPLC 500G	500 GM
Q15675	DiPotassium Hydrogen Ophosphate HPLC 500	500 GM
Q15855	Di-Sodium Hydrogen OPhosphate HPLC 500G	500 GM
Q13415	Potassium Dihydrogen oPhosph HPLC 500G	500 GM
Q20405	Sodium Acetate Anhydrous HPLC 500G	500 GM
Q43935	Sodium Chloride HPLC 500G	500 GM
Q14115	Sodium Dihydrogen oPhosphate HPLC 500G	500 GM

HPLC Solvents

Fisher Chemical supplies chemicals and reagents needed on a daily basis to meet the analytical challenges which are:

Specially formulated for use in liquid chromatography, Fisher Chemical HPLC Grade Acids ensure minimum baseline drift and maximum retention reproducibility.

- Maintain low contamination levels to achieve maximum performance in Liquid Chromatography
- I mprove detection limits for the most demanding analytical applications
- Obtain accurate, reproducible results faster, safer and easier



Research, quality control or routine analysis – whatever the field of activity, the Fisher Chemical range of solvents meet the challenges of chromatography from HPLC to UHPLC-MS applications. Fisher Chemical can supply the type of solvents, blends and reagents in the grades, sizes and packaging that meet your requirements for the most challenging applications, including:

- Forensic toxicology
- Environmental analysis
- Pharmaceutical and biopharmaceutical
- Proteomics and metabolomics
- Clinical research

Product Code	Description	Pack Size
A/0406/PB08	Acetic acid glacial, for HPLC, Certified	500ML
A/0407/PB08	Acetic acid glacial, HPLC for electrochemical detection, CertiFied	500ML
A/3295/PB05	Ammonia solution, 35%, for HPLC, d=0.88,Certified	100ML
A/3446/50	Ammonium acetate, for HPLC, CertiFied	250GR
A/3450/50	Ammonium acetate, HPLC for electrochemical detection, Certified	250GR
A/3686/50	Ammonium carbonate, for HPLC, CertiFied	250GR
B/4791/46	1-Butane sulfonic acid, sodium salt, for HPLC, CertiFied	25GR
C/6230/53	Citric acid monohydrate, HPLC for electrochemical detection, Certified	500GR
D/1338/PB07	Di-n-butylamine, for HPLC, CertiFied	250ML
D/1341/05	Di-n-butylamine phosphate, for HPLC, Certified, solution 1,0 M	100ML
D/4125/PB07	Dimethyl sulfoxide, for HPLC	250ML
D/4125/PB08	Dimethyl sulfoxide, for HPLC	500ML
J/0100/PB08	Ammonia solution, for HPLC, 0.25M, Certified	500ML
J/0200/PB08	Ammonium acetate, for HPLC, 0.25M solution,Certified	500ML
J/4200/PB08	Formic acid, for HPLC, buffer solution 0.25M	500ML
J/5655/PB08	Orthophosphoric acid, for HPLC, solution 1M ,Certified	500ML
J/7600/PB08	Sodium dihydrogen orthophosphate, for HPLC, 0.25M solution, Certified	500ML
J/7650/PB08	di-Sodium hydrogen orthophosphate, for HPLC, 0.25M solution	500ML
J/8800/PB08	Trifluoroacetic acid, for HPLC, 1% solution, Certified	500ML
O/0515/PB08	Orthophosphoric acid, 85%, HPLC for electrochemical detection, Certified	500ML
P/1290/PB05	Perchloric acid, 60%, for HPLC, CertiFied	100ML
P/4806/50	Potassium dihydrogen orthophosphate, for HPLC	250GR
P/4810/50	Potassium dihydrogen orthophosphate, HPLC for electrochemical detection	250GR
S/2046/50	Sodium acetate trihydrate, for HPLC, CertiFied	250GR
S/2052/50	Sodium acetate trihydrate, HPLC for electrochemical detection, CertiFied	250GR
S/3165/53	Sodium chloride, for HPLC, CertiFied	500GR
S/3380/53	tri-Sodium citrate dihydrate, HPLC for electrochemical detection, CertiFied	500GR
S/3770/53	Sodium dihydrogen orthophosphate dihydrate, HPLC for electrochemical detection, Certified	500GR
S/4086/50	Sodium formate, for HPLC, CertiFied	250GR
S/4246/50	Sodium hydrogen carbonate, for HPLC, Certified	250GR
S/4460/53	di-Sodium hydrogen orthophosphate dihydrate, HPLC for electrochemical detection, Certified	500GR
S/5966/50	Sodium perchlorate, for HPLC, CertiFied	250GR
T/0476/46	Tetrabutyl ammonium bromide, for HPLC, CertiFied	25GR
T/0481/07	Tetra-n-butyl ammonium hydroxide, for HPLC, solution 0.5M,Certified	250ML
T/0486/07	Tetra-n-butyl ammonium hydroxide, for HPLC, 0.1M solution, phosphate buffered, Certified	250ML
T/0611/46	Tetradecyltrimethylammonium bromide, for HPLC, CertiFied	25GR
T/0621/46	Tetramethylammonium bromide, for HPLC, CertiFied	25GR
T/0931/46	Tetramethylammonium chloride, for HPLC, CertiFied	25GR
T/3203/07	Triethylamine, for HPLC	250ML
T/3258/04	Trifluoroacetic acid, for HPLC	25ML
T/3258/PB05	Trifluoroacetic acid, for HPLC	100ML
T/3296/PB05	Tri-n-hexylamine, for HPLC	100ML

New and Improved Optima® LC/MS Solvents

- **Less impurity:** Innovative LC-UV gradient test ensures that UV - absorbing impurities will not interfere with your analysis
- **Less Particulates:** ≤ 0.1 micron filtration protects columns and Components from clogging
- Formulated for **UHPLC-UV application**

Improved Performance

Optima® LC/MS Solvents now lead the industry with an unprecedented LC-UV gradient suitability specification that was developed by using advanced UHPLC technology coupled with PDA detection optics, As a result, each lot of Optima LC/MS solvent is screened for UV- absorbing contaminants at every wavelength in the 200-400nm range to afford

In addition, Optima® LC/MS Solvents are formulated for UHPLC-UV which requires the mobile phase to be free of contaminating particulates and UV- absorbing impurities. Our high purity solvents are submicron filtered (0.1µm) to minimize troublesome particles that may interfere with UHPLC system performance and provide an ideal solution to prepare cleaner, particle-free, mobile phase blends for UHPLC.

Competitive Advantage

- Optimized for UHPLC-UV Novel gradient elution test in the full UV range (200-400nm) ensures extremely low levels of UV-absorbing impurities.
- Sub-micronfiltration of Optima® LC/MS Solvents prolongs the life and effectiveness of UHPLC components such as inlet filters, check valves & seals, injectors and columns by reducing instrument downtime and maintenance cost.
- Filtration feature provides very low particle content for maximum purity.

Grade

Optima® LC/MS Solvents for UHPLC-UV

New Specifications:

HPLC/UHPLC-UV

Gradient Suitability Test

Peak Height with PDA (200-400nm):2mAU max

Filter Size: 0.1µm



Product Code	Cas Number	Product Name	Pack Size
A113-10x1AMP	64-19-7	Acetic acid, Optima® LC/MS Grade	10AMP
A113-1AMP	64-19-7	Acetic acid, Optima® LC/MS Grade	1AMP
A113-50	64-19-7	Acetic acid, Optima® LC/MS Grade	50ML
A955-500	75-05-8	Acetonitrile, Optima® LC/MS Grade	500ML
A955-1	75-05-8	Acetonitrile, Optima® LC/MS Grade	1LT
A955-212	75-05-8	Acetonitrile, Optima® LC/MS Grade	2.5LT
A955-4	75-05-8	Acetonitrile, Optima® LC/MS Grade	4LT
A114-50	631-61-8	Ammonium acetate Optima® LC/MS Grade	50GR
A115-50	540-69-2	Ammonium formate Optima® LC/MS Grade	50GR
A117-05AMP	64-18-6	Formic acid, Optima® LC/MS Grade	0.5ML
A117-10x1AMP	64-18-6	Formic acid, Optima® LC/MS Grade	10AMP
A117-1AMP	64-18-6	Formic acid, Optima® LC/MS Grade	1ML
A117-2AMP	64-18-6	Formic acid, Optima® LC/MS Grade	2ML
A117-50	64-18-6	Formic acid, Optima® LC/MS Grade	50ML
LS118-1	64-18-6	Formic acid, Optima® LC/MS Grade, 0.1% Solution in water	1LT
LS118-212	64-18-6	Formic acid, Optima® LC/MS Grade, 0.1% Solution in water	2.5LT
LS118-4	64-18-6	Formic acid, Optima® LC/MS Grade, 0.1% Solution in water	4LT
LS118-500	64-18-6	Formic acid, Optima® LC/MS Grade, 0.1% Solution in water	500ML
LS120-500	64-18-6	Formic acid, Optima® LC/MS Grade, 0.1% Solution in acetonitrile	500ML
LS120-1	64-18-6	Formic acid, Optima® LC/MS Grade, 0.1% Solution in acetonitrile	1LT
LS120-212	64-18-6	Formic acid, Optima® LC/MS Grade, 0.1% Solution in acetonitrile	2.5LT
LS120-4	64-18-6	Formic acid, Optima® LC/MS Grade, 0.1% Solution in acetonitrile	4LT
A461-1	67-63-0	Iso-propanol, Optima® LC/MS Grade	1LT
A461-500	67-63-0	Iso-propanol, Optima® LC/MS Grade	500ML
A461-212	67-63-0	Iso-propanol, Optima® LC/MS Grade	2.5LT
A461-4	67-63-0	Iso-propanol, Optima® LC/MS Grade	4LT
A456-500	67-56-1	Methanol, Optima® LC/MS Grade	500ML
A456-1	67-56-1	Methanol, Optima® LC/MS Grade	1LT
A456-4	67-56-1	Methanol, Optima® LC/MS Grade	4LT
A116-05AMP	67-56-1	Methanol, Optima® LC/MS Grade	0.5ML
A116-0x1AMP	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade	10ML
A116-1AMP	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade	1ML
A116-2AMP	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade	2ML
A116-50	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade	50ML
LS119-1	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade	1LT
LS119-212	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade 0.1% Solution in water	2.5LT
LS119-4	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade 0.1% Solution in water	4LT
LS119-500	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade 0.1% Solution in water	500ML
LS121-1	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade 0.1% Solution in water	1LT
LS121-212	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade 0.1% Solution in acetonitrile	2.5LT
LS121-4	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade 0.1% Solution in acetonitrile	4LT
LS121-500	76-05-1	Trifluoroacetic acid, Optima® LC/MS Grade 0.1% Solution in acetonitrile	500ML
W6-1	7732-18-5	Water, Optima® LC/MS Grade	1LT
W6-212	7732-18-5	Water, Optima® LC/MS Grade	2.5LT
W6-4	7732-18-5	Water, Optima® LC/MS Grade	4LT
W6-500	7732-18-5	Water, Optima® LC/MS Grade	500ML

Fisher Chemical High-Purity Acids

Trace Elemental Analysis Detect to ppq Levels



We offer a complete line of acid grades to meet the most challenging applications:

- Optima™ Acids (1-100 ppt) – Suitable for detection at ppq levels. Feature the lowest metal content (1 ppt for key metals) and the highest purity
- Trace Metal™ Acids (0.1-1 ppt) – High-purity, exceptional Value. Specification Measured at 0.1 ppb for key metals
- Primar Plus™ Acids (1-10 ppb)- The perfect choice for routing applications
- For Analysis, AR Acids (Low cadmium, lead and mercury level) - Suitable for use in Environmental and food applications

For your convenience, our high-purity acid products are provided in fully recyclable robust packaging for easier and safer handling.

Fisher Chemical Trace Metal Acids

These high-purity acids and bases are certified below one part per billion (ppb or ng/g) with key impurities specified at 0.1 ppb and the majority of impurities at 0.5 ppb or lower. Our Trace Metal Acids range is tested up to 65 elements by ICP-MS. Fisher Chemical Trace Metal Grade acids are suitable for ICP-MS and ICP applications.

Packaging Highlights

- Convenient- Packaged in HDPE bottles, for safer, easier handling and to maintain quality
- Reliable – Bottled in Class 10 clean room environment to ensure product quality

Product Code	Cas Number	Product Name	Pack Size
A507-P1	64-19-7	Acetic acid, for trace metal analysis	1LT
A507-P212	64-19-7	Acetic acid, for trace metal analysis	2.5LT
A507-P500	64-19-7	Acetic acid, for trace metal analysis	500ML
A512-P500	1336-21-6	Ammonia solution, 20-22%, for trace metal analysis	500ML
A508-P500	7647-01-0	Hydrochloric acid, 34-37%, for trace metal analysis	500ML
A508-P1	7647-01-0	Hydrochloric acid, 34-37%, for trace metal analysis	1LT
A508-P212	7647-01-0	Hydrochloric acid, 34-37%, for trace metal analysis	2.5LT
A513-P500	7664-39-3	Hydrochloric acid, for trace metal analysis	500ML
A509-P1	7697-37-2	Nitric acid, 67-70%, for trace metal analysis	1LT
A509-P212	7697-37-2	Nitric acid, 67-70%, for trace metal analysis	2.5LT
A509-P500	7697-37-2	Nitric acid, 67-70%, for trace metal analysis	500ML
A511-P500	7601-90-3	Perchloric acid (Trace metal™ grade)	500ML
A511-P1	7601-90-3	Perchloric acid (Trace metal™ grade)	1LT
A511-P212	7601-90-3	Perchloric acid (Trace metal™ grade)	2.5 LT
A510-P500	7664-93-9	Sulfuric acid,94-98%, for trace metal analysis	500ML
A510-P1	7664-93-9	Sulfuric acid,94-98%, for trace metal analysis	1LT
A510-P212	7664-93-9	Sulfuric acid,94-98%, for trace metal analysis	2.5LT



Fisher Chemical Optima® Acids

The highest purity of acids and bases for ultra-trace metal analysis. All products are certified below 100 parts per trillion (ppt or pg/g) with critical impurities specified at 1 ppt level. This range contains the fewest trace metallic impurities of any other acid. Our Optima® Acids are tested for up to 65 elements at ppt levels using the Thermo Scientific™ Element™ 2 High Resolution ICP-MS.



Packaging Highlights

Acids are packaged in either a fluorinated ethylene propylene resin bottle or a perfluoroalkoxy resin bottle with HCl and HF (to avoid vapor permeability issues).

- **Reliable-** Bottled in Class 10 clean room environment and individually double-bagged in class 100 clean room to ensure product quality
- **Convenient-** Each bottle is individually packaged for easier and safer handling

Product Code	Cas Number	Product Name	Pack Size
A465-1	64-19-7	Acetic acid glacial, for ultra traces analysis, Optima®	1LT
A465-250	64-19-7	Acetic acid glacial, for ultra traces analysis, Optima®	250ML
A465-500	64-19-7	Acetic acid glacial, for ultra traces analysis, Optima®	500ML
A470-1	1336-21-6	Ammonia solution, ~21%, for ultra traces analysis, Optima®	1LT
A470-250	1336-21-6	Ammonia solution, ~21%, for ultra traces analysis, Optima®	250ML
A470-500	1336-21-6	Ammonia solution, ~21%, for ultra traces analysis, Optima®	500ML
A471-500	10035-10-6	Hydrochloric acid, 48%, for ultra traces analysis, Optima®	500ML
A466-1	7647-01-0	Hydrochloric acid, 35%, for ultra traces analysis, Optima®	1LT
A466-250	7647-01-0	Hydrochloric acid, 35%, for ultra traces analysis, Optima®	250ML
A466-500	7647-01-0	Hydrochloric acid, 35%, for ultra traces analysis, Optima®	500ML
A463-250	7664-39-3	Hydrochloric acid, 49%, for ultra traces analysis, Optima®	250ML
A463-500	7664-39-3	Hydrochloric acid, 49%, for ultra traces analysis, Optima®	500ML
A463-1	7664-39-3	Hydrochloric acid, 49%, for ultra traces analysis, Optima®	1LT
A467-1	7697-32-2	Nitric acid, 67-69%, for ultra traces analysis, Optima®	1LT
A467-250	7697-32-2	Nitric acid, 67-69%, for ultra traces analysis, Optima®	250ML
A467-500	7697-32-2	Nitric acid, 67-69%, for ultra traces analysis, Optima®	500ML
A468-1	7664-93-9	Sulfuric acid, 96%, for ultra traces analysis, Optima®	1LT
A468-250	7664-93-9	Sulfuric acid, 96%, for ultra traces analysis, Optima®	250ML
A468-500	7664-93-9	Sulfuric acid, 96%, for ultra traces analysis, Optima®	500ML
W9-1	7732-18-5	Water, for Ultra traces elemental analysis, Optima®	1LT
W9-2	7732-18-5	Water, for Ultra traces elemental analysis, Optima®	2LT
W9-500	7732-18-5	Water, for Ultra traces elemental analysis, Optima®	500ML

Give your GC the confidence of Ultrapure Solvents with

Qualigens GC-HS Solvents



- High Reliability – Residual solvents analysis in pharmaceutical and food applications
- Compliance to International Standards – ICH, USP & EP methods
- Superior Performance – Extremely low concentrations of the defi ned residual solvents
- Outstanding Solvent Quality – Filtration and packaging under inert atmosphere

Product Code	Description	Assay	Pack Size
Q49405	Dimethyl Sulphoxide GC HS grade	99.9% V/V	500ML
Q49406	Dimethyl Sulphoxide GC HS grade	99.9% V/V	1L
Q49205	Dimethyl Acetamide GC HS grade	99.9% V/V	500ML
Q49206	Dimethyl Acetamide GC HS grade	99.9% V/V	1L
Q49305	N'N-Dimethylformaide GC HS grade	99.9% V/V	500ML
Q49306	N'N-Dimethylformaide GC HS grade	99.9% V/V	1L
Q49605	N-Methyl Pyrrolidone GC HS grade	99.9% V/V	500ML
Q49606	N-Methyl Pyrrolidone GC HS grade	99.9% V/V	1L

Fisher Chemical Solvents for GC Headspace

High purity solvents for accurate and reliable analysis of organic volatile impurities (OVIs) by gas chromatography headspace (GC-HS)

The determination of residual solvents (organic volatile impurities) by GC headspace is an important quality control procedure in the pharmaceutical industry. Residual solvent testing is defined in accordance with the ICH1 and required by USP and Ph. Eur. The technique requires extraction of residual solvents from the sample using a high purity solvent free of contaminants that could interfere with GC analysis by co-eluting with the peaks of interest. ICH guidelines include maximum concentration limits for Class 1, Class 2, and Class 3 residual solvents (most to least toxic, respectively). Fisher Chemical's GC Headspace solvents are performance tested to ensure absence of trace level ICH residual solvents.

Key Features of Fisher Chemical GC Headspace Solvents

Residual Solvent Class	GC Headspace Solvent Suitability Specification	ICH Residual Solvent Concentration Limit
1	1 ppm max.	2 ppm (Benzene)
2	10 ppm max.	50 ppm (Methylbutyl-ketone)
3	50 ppm max.	NA



- Processed to high purity for **accurate and repeatable determination of trace levels of Class 1, Class 2, and Class 3 residual solvents in pharmaceuticals**
- Tested by UV absorbance to **ensure low organic contamination**
- Processed for low water content to **facilitate the extraction of organic volatile impurities**
- Packaged in an inert atmosphere to **maximize shelf life in unopened containers**

Part No	Product Description
D139-1	DMSO, Dimethyl Sulfoxide, GC Headspace
D133-1	DMF, N,N-Dimethylformamide, GC Headspace
D160-1	DMAC, N,N-Dimethylacetamide, GC Headspace
N140-1	NMP, N-Methyl-2-Pyrrolidone, GC Headspace

SuskaSol™ Dried Solvent

SuskaSol™: "Suska" in sanskrit means dried, Sol – stands for solvent

Tetrahydrofuran, Dichloromethane, Dimethylformamide, Chloroform, Acetonitrile, Methanol, Diethyl ether and Toluene are all commonly used solvents and in many cases they are required in anhydrous form. Some organic synthesis or preparations are sensitive towards moisture. **SuskaSol™** Dried solvents are ideally suited for applications like DNA/RNA synthesis, peptide and organic synthesis. **SuskaSol™** Dried solvents offers the highest standards of purity with low water content suitable for demanding laboratory applications.

SuskaSol™ Dried solvents are produced using specially selected distillation methods that ensure consistently high dryness and batch-to-batch consistency.

Our rigorous process of purification and removal of moisture provides ideal solvents to be used for chemical reactions where moisture content is critical.

Benefits:

- Highest quality with low water content
- Packed under Nitrogen to ensure constant and high level of dryness
- Convenient pack size of 500 mL to avoid wastage
- Batch to batch consistency



Product Code	Product Name	CAS Number	Pack Size
Q33015	Acetone **SuskaSol™** (Dried)	67-64-1	500 mL
Q33155	Acetonitrile **SuskaSol™** (Dried)	75-05-08	500 mL
Q33025	Chloroform **SuskaSol™** (Dried)	67-66-3	500 mL
Q33035	Cyclohexane **SuskaSol™** (Dried)	110-82-7	500 mL
Q33085	Dichloromethane **SuskaSol™** (Dried)	75-09-2	500 mL
Q33045	Diethyl Ether **SuskaSol™** (Dried)	60-29-7	500 mL
Q33165	Dimethyl Sulfoxide **SuskaSol™** (Dried)	67-68-5	500 mL
Q33055	Dimethylformamide **SuskaSol™** (Dried)	68-12-2	500 mL
Q33095	1,4 Dioxan **SuskaSol™** (Dried)	123-91-1	500 mL
Q33105	Ethyl Acetate **SuskaSol™** (Dried)	141-78-6	500 mL
Q33185	Methanol **SuskaSol™** (Dried)	67-56-1	500 mL
Q33115	Iso Octane **SuskaSol™** (Dried)	540-84-1	500 mL
Q33125	Iso-Propyl Alcohol (Propan-2-ol) **SuskaSol™** (Dried)	67-63-0	500 mL
Q33135	Tetrahydrofuran **SuskaSol™** (Dried)	109-99-9	500 mL
Q33145	Toluene **SuskaSol™** (Dried)	108-88-3	500 mL

Aqualine

Aqualine™ is the complete range of reagents offered by Fisher Chemicals for Karl Fischer Analysis. The performance of these reagents is faster and more stable in comparison with any other reagents in terms of titration and water recovery.

The water content when measured on the same automated coulometric moisture metersis identical, making Aqualine™ the chosen range of unique cost-effective, long-lasting and stable range of reagents.



Aqualine™

Aqualine™ range

- Faster and rellable results
- Less toxicity, safer to use
- Colour free
- Extended shelf life
- Affordable price

Product Code	Product Name	Pack Size
K/1900/15	Aqualine'® Complete 1, for Karl Fischer analysis	1LT
K/1950/15	Aqualine® Complete 2, for Karl Fischer analysis	1LT
K/1950/17	Aqualine® Complete 2, for Karl Fischer analysis	2.5LT
K/2000/15	Aqualine® Complete 5, for Karl Fischer analysis	1 LT
K/2000/17	Aqualine® Complete 5, for Karl Fischer analysis	2.5LT
K/2250R/08	Aqualine® Complete 5K, for Karl Fischer analysis	500ML
K/2250R/15	Aqualine® Complete 5K, for Karl Fischer analysis	1 LT
K/2500/08	Aqualine® Electrolyte A, for Karl Fischer analysis	500ML
K/2510/08	Aqualine® Electrolyte AD, for Karl Fischer analysis	500ML
K/2515/08	Aqualine® Electrolyte AD-G, for Karl Fischer analysis	500ML
K/2520/08	Aqualine® Electrolyte AG, for Karl Fischer analysis	500ML
K/2530/08	Aqualine® Electrolyte AG-H, for Karl Fischer analysis	500ML
K/2560/04	Aqualine® Electrolyte CG, for Karl Fischer analysis	25ML
K/2300R/08	Aqualine® Matrix-K, for Karl Fischer analysis	500ML
K/2300R/15	Aqualine® Matrix-K, for Karl Fischer analysis	1 LT
K/2770/48	Aqualine® sodium tartrate, for Karl Fischer analysis, standard	100GR
K/2110/15	Aqualine® Solvent CM, for Karl Fischer analysis, for samples with high hydrocarbon content	1 LT

Product Code	Product Name	Pack Size
K/2110/17	Aqualine® Solvent CM, for Karl Fischer analysis, for samples with high hydrocarbon content	2.5LT
K/2100/15	Aqualine® Solvent, for Karl Fischer analysis	1 LT
K/2100/17	Aqualine® Solvent, for Karl Fischer analysis	2.5LT
K/2150/15	Aqualine® Titrant 2, for Karl Fischer analysis	1 LT
K/2150/17	Aqualine® Titrant 2, for Karl Fischer analysis	2.5LT
K/2200/15	Aqualine® Titrant 5, for Karl Fischer analysis	1 LT
K/2200/17	Aqualine® Titrant 5, for Karl Fischer analysis	2.5LT
K/2710/99	Aqualine® Water Standard 1 mg/g, for Karl Fischer analysis	40ML
K/2720/99	Aqualine® Water Standard 10 mg/g, for Karl Fischer analysis	80ML
K/2730/08	Aqualine® Water Standard 5 mg/ml, for Karl Fischer analysis	500ML
K/2760/45	Aqualine® water standard KF Oven, for Karl Fischer analysis	10GR
K/2740/99	Aqualine® water standard, for Karl Fischer analysis, 0.2 mg/g, pack of 10 x 4ml	40ML

Silica Gel Orange

Silica Gel blue, the most commonly used laboratory desiccant contains Cobalt Chloride as the indicator and poses health risks and environmental issues.

Cobalt Chloride has been classified by IARC (International Agency for Research on Cancer) in Group 2B, which states Cobalt Chloride is possibly carcinogenic to humans, very toxic to aquatic organisms and may cause long term adverse effects in the environment.

Material Safety Data Sheet : **Blue Silica Gel**

1. Identification of the substance/preparation and the company

Substance : Blue Silica Gel

Application : Drying Agent

2. Composition/Information of ingredients

Synthetic Amorphous Silica
Weight %: >99
CAS No.: 7631-86-9
Hazard symbols: --
R-phrased: --
Index No.: --
EINECS No.: 231-545-4

Cobalt Dichloride
Weight %: 0.2-0.9
CAS No.: 7646-79-9
Hazard symbols: T, N
R-phrases: 49 (Carc. Cat. 2)-22 42/43-50/53
Index No.: 027-004-00-5
EINECS No.: 231-5489-4

3. Hazards Identification

Hazard description:
May cause cancer by inhalation.
Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.







Silica Gel Orange

A Reformulated Silica Gel without Cobalt Chloride is now available. It has the same moisture absorption capacity and the indicating beads turn from Orange to colorless, when fully absorbed.

- Indicator Change : Orange to Colorless
- Indicator Used : Iron Salt
- Regeneration : Approx. 130 – 140°C / approx. 3 hours

Item Code	Product name	Cas Number	Pack Size
S/0761/53	Silica gel, pure, 2.5-6.0mm, self indicating (iron salt)	7631-86-9	500GR
S/0761/60	Silica gel, pure, 2.5-6.0mm, self indicating (iron salt)	7631-86-9	1KG
S/0761/65	Silica gel, pure, 2.5-6.0mm, self indicating (iron salt)	7631-86-9	5KG

Karl Fischer Reagent

Features

- Measures moisture from ppm to 100%
- Right chemistry ensures high titration speed and reduced analysis time
- Pyridine free
- Sharp and stable end point
- Consistent and stable factor (5-6mg/ml)
- Longer shelf life
- High accuracy and precision with minimumsample size
- Available in convenient pack size of 2*250ml

KFR RECOMBINANT



> 6 mg/ml

526 KFR



5-6 mg/ml

Product Code	Product Name	Pack Size	Packing Material
35834	KFR Recombinant (Karl Fischer Reagent Pyridine Free Single Solution)	2 X 250 ML	GB
35824	526 KFR (Karl Fischer Reagent Pyridine Free Single Solution)	2 X 250 ML	GB

Trifluoroacetic acid for Chromatography

TFA is a common mobile phase additive used in HPLC for protein & petptide separations. It is a strong ion pairing agent used to improve retention time.



TFA serve one or more of these functions:

1. pH control (buffering)
2. Complexation with oppositely charged ionic groups to enhance RP retention (ion pairing)
3. Suppression of adverse ionic interactions between peptides and silanol groups on the silica

Key highlights:

- Ideal high purity mobile phase additive for HPLC applications
- Tested for UV absorbance for smoother baselines
- Convenient & easy to use 10 x 2ml vials, avoids precipitation & loss of solvent



Product	Product Name	CAS Number	Pack Size	PACKING MATERIAL
Q28462	Trifluoroacetic Acid for Chromatography	76-05-1	50 ML	GB
Q28469	Trifluoroacetic Acid for Chromatography 10x 2ml vials	76-05-1	10x2 ML	Vial

Perchloric Acids

Features

Perchloric Acid 0.1N

- Saves time - Ready to use, no stabilization required
- Moisture content ≤ 0.02%
- Ideal choice for non aqueous titrations



Part no.	Description	Pack Size	Packing Material
29945	Perchloric Acid 0.1mol in anhydrous acetic acid, for non-aqueous titrations	500 ML	GB
29915	Perchloric Acid 60% ER	500 ML	GB
29917	Perchloric Acid 60% ER	2.5 LT	GB
29925	Perchloric Acid 70% ER	500 ML	GB
29927	Perchloric Acid 70% ER	2.5 LT	GB
29935	Perchloric Acid 70% Diamond Grade ER	500 ML	GB

Labolene

The perfect choice for cleaning solutions.

Cleaning laboratory glassware is important because contaminated or stained glassware can lead to inaccurate results in your analysis. Everything that comes in contact with chemicals or biological substances must be free from impurities, both before and after use.

Labolene is a reliable cleaning agent with consistent and proven composition, that ensures proper scientific working procedures and avoids frequent modification of processes and applications.

Labolene is supplied as a liquid concentrate, for dilution with water.

Recommended for use in labs conducting micro-phosphate tests, for manual cleaning, or for use in ultrasonic cleaning bath.

Labolene Neutral

- Reliable cleaning that prevents carry-over of residues to the next analysis, thus helping you to get the right results
- Ideal all-purpose cleaner
- Use in concentration as low as 0.5%
- Biodegradable
- Neutral
- Efficient, safe, economical and environment-friendly



Part no.	Description	Pack Size	Packing Material
42215	Labolene neutral pH	500 ML	PB
42218	Labolene neutral pH	5 LT	PJC
4221C	Labolene neutral pH	25 LT	PJC
4221H	Labolene neutral pH	200 LT	PD

Labolene Phosphate free

- Reliable cleaning that prevents carry-over of residues to the next analysis, thus helping you to get the right results
- Ideal all-purpose cleaner
- Biodegradable
- Phosphate free
- Efficient, safe, economical and environment-friendly



Recommended application concentrations

- Normal contamination 2%
- Heavy contamination 4%

Part No.	Product Name	Pack Size	Price (INR)
Q42225	Labolene Phosphate Free	500 ML	499
Q42228	Labolene Phosphate Free	5 ML	1999

Sodium Perchlorate

Sodium Perchlorate is an eluent component in the analysis of samples using liquid chromatography or high performance liquid chromatography.Many Pharmacopeias recommend use of Sodium Perchlorate as Mobile Phase additive.

We offer a wide range of Sodium Perchlorate in our portfolio, including for HPLC
- Optical Absorbance of a 1M Solution at 254nm - ≤0.02



Product Code	Description	Pack Size
S490500	Sodium Perchlorate Monohydrate (HPLC),	500 GR
S490100	Sodium Perchlorate Monohydrate (HPLC),	100 GR
S360212	Sodium Perchlorate Monohydrate (Cryst./Laboratory),	2.5 KG
S360500	Sodium Perchlorate Monohydrate (Cryst./Laboratory),	500 GR
S/5966/50	Sodium perchlorate, for HPLC, CertiFied	250 GR
S/5960/50	Sodium perchlorate, extra pure, SLR	250 GR
S/5965/53	Sodium perchlorate, for analysis	500 GR
S/5960/53	Sodium perchlorate, extra pure, SLR	500 GR

Platinum-Cobalt Color Standard Solution (APHA)

The Platinum-Cobalt Scale (Pt/Co scale or Apha-Hazen Scale) is a color scale that was developed as a way to evaluate pollution levels in waste water. It has since expanded to a common method of comparison of the intensity of yellow-tinted samples. It is specific to the color yellow and is based on dilutions of a 500 ppm platinum cobalt solution. The ASTM has detailed description and procedures in ASTM Designation D1209, "Standard Test Method for Color of Clear Liquids (Platinum-Cobalt Scale)

The color reference solution can be used for visual comparison or as a calibration standard for instrumental analysis. It can also be used to prepare color reference solutions of different Hazen units.



Part no.	Description	Pack Size
SP120500	Platinum Cobalt Color Standard Solution (APHA)	500 ML
SP1201	Platinum Cobalt Color Standard Solution (APHA)	1 LT

Distol grade GC Solvent

Fisher chemical offers range of solvents specified for pesticides and petroleum residues analysis. Our GC Solvents are supplied with GC analysis & are specially developed and tested for use with Electron capture detector (ECD) and flame ionization detector (FID).



Key features

- Specified for ECD, NPD and FID detectors
- Supplied with Certificate of Analysis
- Wide range of packaging styles available to suit application requirements

GC – Pesticide residue analysis

Catalogue	Item Description	CAS Number	Item Unit
T/3608/15	2,2,4-Trimethylpentane, for residue analysis, Distol™	540-84-1	1 LT
T/3608/17	2,2,4-Trimethylpentane, for residue analysis, Distol™	540-84-1	2.5 LT
A/0603/15	Acetone, 99.8+%, for residue analysis, Distol™	67-64-1	1 LT
A/0603/17	Acetone, 99.8+%, for residue analysis, Distol™	67-64-1	2.5 LT
A/0623/15	Acetonitrile, 99.8+%, for residue analysis, Distol™	75-05-8	1 LT
A/0623/17	Acetonitrile, 99.8+%, for residue analysis, Distol™	75-05-8	2.5 LT
C/4963/15	Chloroform, 99.8+%, for residue analysis, Distol™, stabilized with amylene	67-66-3	1 LT
C/4963/17	Chloroform, 99.8+%, for residue analysis, Distol™, stabilized with amylene	67-66-3	2.5 LT
C/8933/15	Cyclohexane, 99.5+%, for residue analysis, Distol™	110-82-7	1 LT
C/8933/17	Cyclohexane, 99.5+%, for residue analysis, Distol™	110-82-7	2.5 LT
D/1853/17	Dichloromethane, 99.8+%, for residue analysis, Distol™, stabilized with amylene	75-09-2	2.5 LT
D/1853/15	Dichloromethane, 99.8+%, for residue analysis, Distol™, stabilized with amylene	75-09-2	1 LT
D/2503/15	Diethyl ether, 99.5+%, for residue analysis, Distol™, stabilized with copper gauze	60-29-7	1 LT
D/2503/17	Diethyl ether, 99.5+%, for residue analysis, Distol™, stabilized with copper gauze	60-29-7	2.5 LT
E/0903/17	Ethyl acetate, 99.8+%, for residue analysis, Distol™	141-78-6	2.5 LT
E/0903/15	Ethyl acetate, 99.8+%, for residue analysis, Distol™	141-78-6	1 LT
H/0403/15	Hexanes, for residue analysis, Distol™, contains 95% n-Hexane	92112-69-1	1 LT
H/0403/17	Hexanes, for residue analysis, Distol™, contains 95% n-Hexane	92112-69-1	2.5 LT
H/0408/15	Isohexane, for residue analysis, Distol™, contains <5% n-Hexane	73513-42-5	1 LT
H/0408/17	Isohexane, for residue analysis, Distol™, contains <5% n-Hexane	73513-42-5	2.5 LT
P/7501/15	Isopropanol, 99.8+%, for residue analysis, Distol™	67-63-0	1 LT
P/7501/17	Isopropanol, 99.8+%, for residue analysis, Distol™	67-63-0	2.5 LT
M/4053/15	Methanol, 99.8+%, for residue analysis, Distol™	67-56-1	1 LT
M/4053/17	Methanol, 99.8+%, for residue analysis, Distol™	67-56-1	2.5 LT
P/1024/15	Pentane, for residue analysis, Distol™, approx. 95% n-Pentane	109-66-0	1 LT
P/1024/17	Pentane, for residue analysis, Distol™, approx. 95% n-Pentane	109-66-0	2.5 LT
P/2092/15	Petroleum ether 40-60°C, for residue analysis, Distol™	64742-49-0	1 LT
P/2092/17	Petroleum ether 40-60°C, for residue analysis, Distol™	64742-49-0	2.5 LT
P/2094/15	Petroleum ether 60-80°C, for residue analysis, Distol	64742-49-0	1 LT
P/2094/17	Petroleum ether 60-80°C, for residue analysis, Distol	64742-49-0	2.5 LT
S/6660/60	Sodium sulfate anhydrous, for residue analysis, Distol™	7757-82-6	1 KG

Qualigens GC solvent

Our solvents are developed specially for sample preparation in GC. Ideally suited for all GC applications including sensitive detection tasks in residue and environmental analysis.

Our GC solvent qualities are ideal for all gas chromatography applications. Solvents range specified for pharma, pesticides and petroleum residues analysis.

Qualigens GC solvents offer you the security and reliability needed for today's GC applications

Key features:

- Specified for ECD and FID detectors
- Extremely low residual impurities
- Supplied with Certificate of Analysis

Application:

- Pesticide analysis
- Organic residue analysis
- Pharma

Product Code	Product Name	Pack Size
Q48105	Iso Propyl Alcohol GC Grade	500 ML
Q48205	Acetone GC Grade	500 ML
Q48305	Acetonitrile GC Grade	500 ML
Q48405	Chloroform GC Grade	500 ML
Q48505	Cyclohexane GC Grade	500 ML
Q48605	Methanol GC Grade	500 ML
Q48705	Tetrahydrofuran GC Grade	500 ML
Q48805	Toluene GC Grade	500 ML
Q48905	N-Heptane GC Grade	500 ML
Q49005	Dichloromethane GC Grade	500 ML
Q48005	Ethyl Acetate GC Grade	500 ML
Q47905	n- Hexane 99% GC Grade	500 ML



Sodium Lauryl Sulfate



Dissolution is the process in which a substance forms a solution.
Dissolution testing measures the extent and rate of solution formation from a dosage form, such as tablet, capsule, ointment, etc.
The dissolution of a drug is important for its bioavailability and therapeutic effectiveness. Dissolution and drug release are terms used interchangeably.

To properly evaluate the dissolution of drug products, it is critical for procedures to be standardized.

We offer a variety of SLS for your dissolution needs in powder, granules and pallets form.

Catalogue	Item Description	CAS Number	Item Unit
0267425	Sodium Dodecyl Sulfate (Certified),		25 GM
BP8200100	Sodium Dodecyl Sulfate (SDS) Micropellets	151-21-3	100 GM
BP8200500	Sodium Dodecyl Sulfate (SDS) Micropellets		500 GM
BP166100	Sodium Dodecyl Sulfate (White Powder/Electrophoresis)	151-21-3	100 GM
BP166500	Sodium Dodecyl Sulfate (White Powder/Electrophoresis)	151-21-3	500 GM
S/P530/48	Sodium Dodecyl Sulfate, 99+ %, for Electrophoresis	151-21-3	100 GM
S/P530/53	Sodium Dodecyl Sulfate, 99+ %, for Electrophoresis	151-21-3	500 GM
S/5200/53	Sodium Dodecyl Sulfate, technical	151-21-3	500 GM
S5293	Sodium Lauryl Sulfate (Powder/NF/FCC)		3 KG
S529500	Sodium Lauryl Sulfate (Powder/NF/FCC)		500 GM
Q14136	Sodium Lauryl Sulfate EF	151-21-3	1 KG
Q14135	Sodium Lauryl Sulfate EF	151-21-3	500 GM
Q2782C	Sodium Lauryl Sulfate SQ	151-21-3	25 KG
Q27825	Sodium Lauryl Sulfate SQ	151-21-3	500 GM

Sodium Lauryl Sulfate Granular

GRANULAR Sodium Lauryl Sulfate is easier to handle, drastically reduces scattering and the danger of inhaling flying fine powder.

- No scattering
- No airbone fine powder
- Ease of solubility and reduced dusting
- High solubility
- Easy weighing

Cas No.	Product Code	Product Description	Pack Size
151-21-3	S64241.36	Sodium Lauryl Sulfate Granular	500 GM

Find the perfect chemicals, metals and materials for a wide span of applications.

The Thermo Scientific brands provide an expansive range of chemicals for organic and inorganic synthesis, plus a large organic building block portfolio.

Custom Synthesis and Sourcing Support

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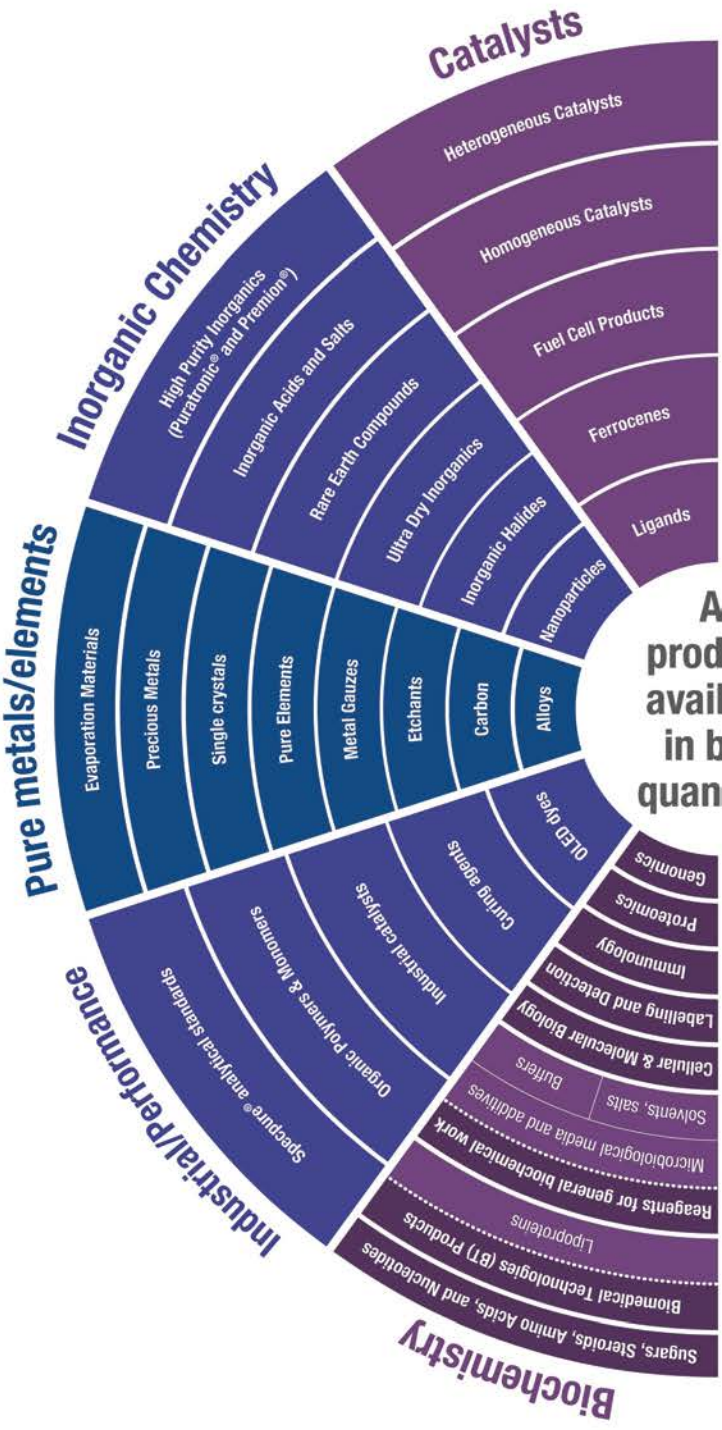

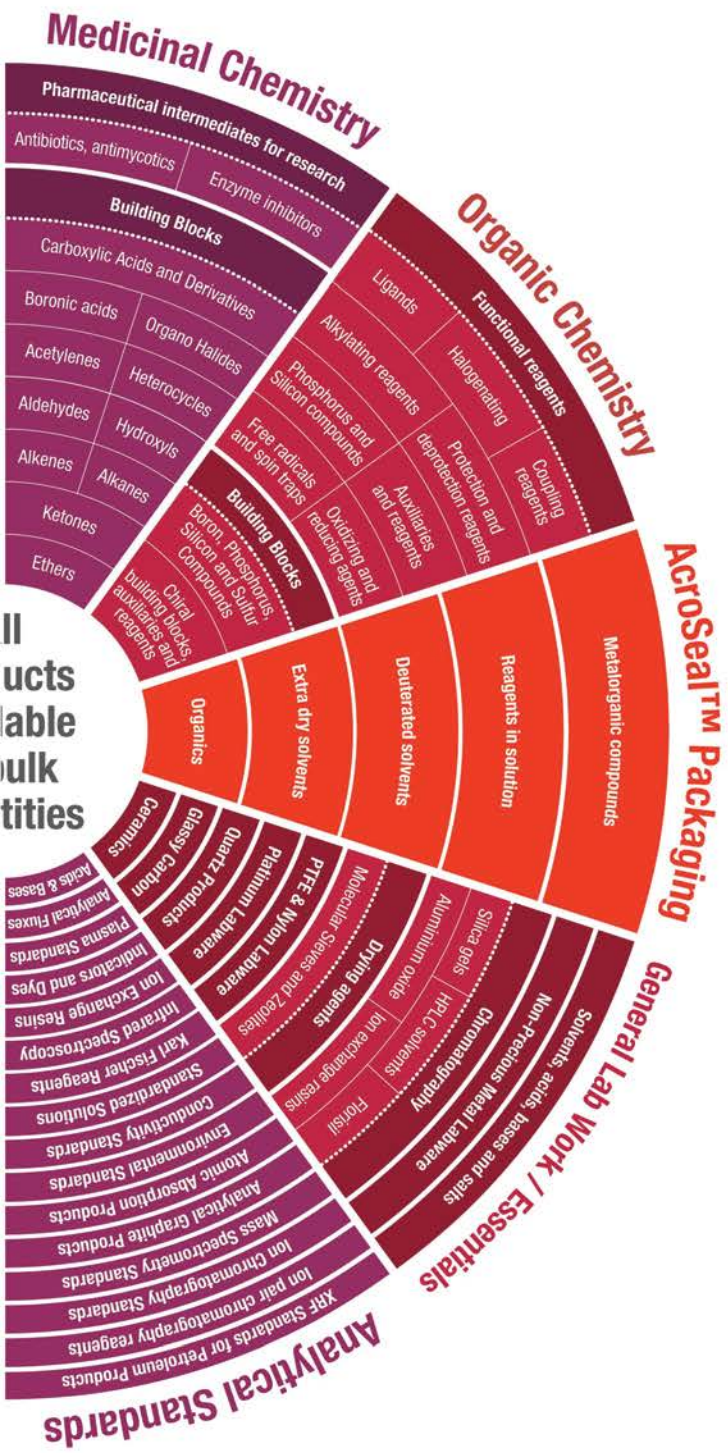

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AcroSeal

Dried reagents for longer stability

When using air- and moisture-sensitive solvents and reagents, it is essential that these products are not only as dry as possible when you first use them, but they should remain dry in storage as well. Through the innovative quadrant-style screw cap and specially designed septum, AcroSeal packaging ensures that you have access to high-quality and low moisture products every use, guaranteeing improved yield & consistency of your research experiments while reducing chemical waste.



Key Highlights of Acroseal Packaging

- **New septum** developed from a polymeric elastomer with an inert fluoropolymer-coated surface, preserves product quality for longer with better re-seal around needle punctures.
- **Red butyl rubber septum** is used on our organometallics, reagents in solution & organics products because it provides excellent chemical resistance to these products.
- **Adhesive-free septum** reduces the risk of contamination.
- **Multiple screw thread windings** in the inner septum holding cap minimize the risk of moisture ingress between cap & bottle.
- **Inner septum holding cap rim design** supports & stretches the septum, reducing the risk of bulging or deformation.
- **Large surface area** allows easier access for a second needle to replace the nitrogen blanket during use & prevents the need to puncture the same spot twice.
- **Cushioning liner** in outer protective cap re-seals perfectly even after the septum has been pierced multiple times.
- **Tamper-evident seal** indicates if the product has already been opened.
- **Easy cap removal** ensures effortless access to large volumes of product.



Specpure®

High Purity Analytical standards

Our Specpure analytical standards,manufactured for unsurpassed performance in accuracy, purity and quality. Product range including pH Buffers, Ion chromatography standards, Single & Multi-Elements plasma standard, AAS standards in different concentrations such as 100 ppm, 1000 ppm & 10000 ppm.

Specpure® Single - Element Standards

These solution standards are intended for use with ICP, DCP, or ICP-MS. These techniques are capable of determining the concentrations of many elements quickly, either simultaneously or sequentially. Key features of Specpure® Single Element Plasma Standards include:

- A NIST-traceable Certificate of Analysis which includes trace metal analysis of 70 elements is included with each standard solution
- Expiration date stickers are included with each standard solution
- Certified accuracy based upon high performance ICP (HP-ICP-AES) assay method developed by NIST

Specpure® Multi-Element Standards

Alfa Aesar offers a wide selection of Multi-Element Calibration Standards in stock and ready for prompt shipment. Each multi-element solution is shipped with expiration date stickers and a Certificate of Analysis which states the actual concentrations of each element and NIST traceability. These multi-element solutions are designed to contain groups of elements which are matrix matched and commonly analyzed together.

Specpure® Semiquantitative Analysis Standards

The Semiquantitative Analysis Standard solutions contain almost all elements which can be determined by ICP and DCP They are very useful for doing semi-quantitative analysis scans.

https://www.thermofisher.in/chemicals/en/brands/thermo-scientific.html#Literature



Derivatization Reagent

Derivitization is a process of Chemically Modifying a compound to produce a new compound which has properties that are suitable for analysis using a chromatography method.

- A modified analyte will be in this case will be the product , which is known as the derivative.
- The derivative may have similar or closely related structure but not the same as the original non-modified chemical compound.
- Derivatization is a useful tool allowing the use of GC , GCMS , HPLC to be done on sample that would otherwise not be possible in various areas of chemistry such as medical , forensic & environmental.
- Many Polar Compounds and Samples are not suitable for chromatographic analysis due to their physical and chemical properties.
- These compounds are either silylated, acylated or alkylated in order to impart voiltality and improve detectability.

Gas Chromatography

Product Code	Silylating Reagents	CAS No.
156461000	N,O-bis-(trimethylsilyl)acetamide 95% (BSA)	10416-59-8
168000050	N,O-bis(trimethylsilyl)trifluoroacetamide 98+% (BSTFA)	25561-30-2
162840100	Chlorodimethylsilane 96%	1066-35-9
120580100	1,1,1,3,3,3-hexamethyldisilazane 98%	999-97-3
221580050	N-methyl-N-(trimethylsilyl)trifluoroacetamide 97% (MSTFA)	24589-78-4
221540050	N-(tert-butyldimethylsilyl-N-methyltrifluoroacetamide 98% (MTBSTFA)	77377-52-7
110120250	Chlorotrimethylsilane 98%	75-77-4
155690050	N,N-diethyl-1,1,1-trimethylsilylamine 98% (TMSDEA)	996-50-9
167130250	N-(trimethylsilyl)-imidazole 98% ((TSIM)	18156-74-6

Product Code	Acylating Reagent	CAS No.
139721000	Trifluoroacetic acid 99%	76-05-1
147121000	Pentafluorobenzoylchloride 98%	2251-50-5
169260050	Heptafluorobutyric anhydride 98+%	336-59-4
147811000	Trifluoroacetic anhydride	407-25-0
416930050	Pentafluoropropionic anhydride	356-42-3
H/0095/45	Heptafluorobutyryl imidazole	32477-35-3
158900500	Boron trifluoride dimethanol complex	2802-68-8

Product Code	Alkylating Reagent	CAS No.
385330050	(Trimethylsilyl)diazomethane Tech., ca. 2.0M solution in hexanes	18107-18-1
161250250	N,N-dimethylformamide dimethyl acetal ca 97%	4637-24-5
381360010	Trimethylsulfonium hydroxide	17287-03-05
420530050	Tetramethylammoniumhydroxide pentahydrate, 99%	10424-65-4
445271000	Boron Trifluoride in MEOH	373-57-9

Derivatization is often required in Liquid Chromatography to increase the response to various detection techniques.

Generally , Derivatization is aimed at improving on the following aspects in chromatography.

- **Improve detectability**
- **Enhance Separation**
- **Prepare Soluble Derivative**
- **The Matrix for better separation**
- **Change the molecular or polarity.**

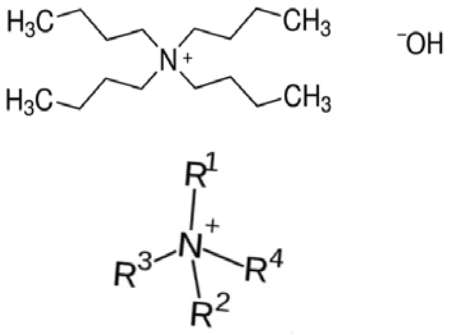
UV Detection is most commonly used detector is HPLC. Derivatization Modifies substance with a low UV absorption into highly sensitive product that helps to improve absorption. Reagent for UV Derivatization

Functional Group	Product Code	Reagent	CAS No.
Carboxyl Group	112680100	2,4 Dibromoacetophenone	99-73-0
	188180025	9 (Chloromethyl) anthracene	24463-19-2
	A12018.14	N-(Chloromethyl)phthalimide, 97%	17564-64-6
	151910100	2-Bromo-3'-methoxyacetophenone, 97%,	5000-65-7
	A15576.14	2-Bromoacetophenone, 98%	70-11-1
Amino Group	408710250	3,5-Dinitrobenzoyl Chloride, 99%	99-33-2
	117030050	2,4-Dinitrofluorobenzene, 98%	70-34-8
	160971000	Phenyl isothiocyanate, 98	103-72-0
Carbonyl Group	L05861	O-(4-Nitrobenzyl)hydroxylamine hydrochloride, 98%	2086-26-2

Fluorescence is quantifiable at lower concentrations. Fluorescence derivatization reagent an be used to increase the sensitivity of the analysis.

Fluoroscene Detection	Product Code	Reagent	CAS No.
Carboxyl Group	365190050	4-(Bromomethyl)-7-methoxycoumarin, 97%	35231-44-8
	434021000	4-Bromomethyl-6,7-dimethoxycoumarin,	1719-57-9
	188180025	9-(Chloromethyl)anthracene, 98+%	24463-19-2
Amino Group	172390010	NBD chloride, 98%	10199-89-0
	125470100	2-Mercaptoethanol, 99%	60-24-2
	415450250	4-Fluoro-7-nitrobenzofurazan, 98%	29270-56-2
Hydroxy Group	111170025	1,3-Cyclohexanedione, 97%	0504-02-09
Other Reagents	170940050	9-Fluorenylmethyl chloroformate, 98%	28920-43-6
	439341000	N-alpha-(2,4-Dinitro-5-fluorophenyl)-L-alaninamide, 98%	95713-52-3
	L06057.ME	- 4-Dimethylaminoazobenzene-4'-sulfonyl chloride, 98+%,	56512-49-3
	165870250	Ninhydrin, spectrophotometric grade	485-47-2
	160971000	Phenyl isothiocyanate, 98	103-72-0

Quaternary Ammonium salts and Solutions



Quaternary ammonium compounds are positively charged polyatomic ions of the structure NR4+ with R being alkyl or aryl groups. The R groups may also be connected.

QAC are widely used as PTC and are compounds that facilitate the transfer of reactant form one phase to another where it can react with another reagent. QAC are effective PTC because they have a positive charged nitrogen species that can interact with negatively charged species in one phase and positively charged in another phase. This allows them to facilitate the transfer of reactant between phases and promote reactions that might not otherwise occur.

Product Code	Stock Unit	CAS No.
	(1-Decyl) trimethylammonium bromide, 98%	
L12144-09	10g	2082-84-0
	(1-Dodecyl) trimethylammonium bromide, 99%	
A10761-09	10g	1119-94-4
A10761-18	50g	1119-94-4
	(2-Bromoethyl) trimethylammonium bromide, 98%	
152350050	5gr	07-06-2758
152350250	25gr	07-06-2758
	(1-Tetradecyl) trimethylammonium bromide, 98%	
L10294-14	25G	1119-97-7
L10294-22	100g	1119-97-7
L10294-36	500g	1119-97-7
	(Di-n-dodecyl) dimethylammonium bromide, 98+%	
B22839-09	10g	3282-73-3
	Acetylcholine chloride, 98+%	
L02168-14	25g	60-31-1
L02168-22	100g	60-31-1
	Aliquat<< 336 TG	
A17247-AE	100mL	63393-96-4
A17247-AP	500mL	63393-96-4
	Tetrabutylammonium hydrogen sulfate, 98%	
168380010	1kg	32503-27-8
168380250	25gr	32503-27-8
168381000	100gr	32503-27-8
168382500	250gr	32503-27-8

Product Code	Stock Unit	CAS No.
	Hexadecyltrimethylammonium bromide, 99+%	
227160250	25gr	57-09-0
227165000	500gr	57-09-0
	Dodecyltrimethylammonium bromide, 99%, pure	
409310250	25gr	119-94-4
409311000	100gr	119-94-4
	Tetrabutylammonium hydroxide, 1 M solution in methanol	
212910025	2.5lt	2052-49-5
212911000	100mL	2052-49-5
212918000	800mL	2052-49-5
	Myristyltrimethylammonium bromide, 99%	
229371000	100gr	1119-97-7
	Tetrabutylammonium fluoride trihydrate, 99%	
221080100	10gr	87749-50-6
221080500	50gr	87749-50-6
	Tetrabutylammonium hydroxide 30-hydrate, 95+%	
434830250	25gr	147741-30-8
434831000	100gr	147741-30-8
	Tetrabutylammonium hydrogen sulfate, 99%, extra pure	
394200050	5gr	32503-27-8
394200250	25gr	32503-27-8
394201000	100gr	32503-27-8
394205000	500gr	32503-27-8
	Choline hydroxide, 46% w/w aq. soln.	
B24443-AC	25mL	123-41-1
B24443-AE	100mL	123-41-1

Product Code	Stock Unit	CAS No.
	Di-n-decyl dimethylammonium bromide, 80% aq. gel	
B24832-36	500g	2390-68-3
	Tetrabutylammonium hydroxide, 40 wt. % solution in methanol	
366321000	100mL	2052-49-5
366325000	500mL	2052-49-5

Product Code	Stock Unit	CAS No.
	Tetramethylammonium hydroxide pentahydrate, 97%	
207521000	100gr	10424-65-4
207525000	500gr	10424-65-4
	Tetraethylammonium hydroxide, 20 wt.% in water	
176070010	1 lt	77-98-5
176072500	250mL	77-98-5

Product Code	Stock Unit	CAS No.
	Tetraethylammonium iodide, 98+%	
A11783-18	50g	68-05-3
A11783-30	250g	68-05-3
	Tetraethylammonium acetate tetrahydrate, 97+%	
194940250	25gr	67533-12-4
	Tetraethylammonium bromide, 98%	
A13835-30	250g	71-91-0
	Tetra-n-butylammonium bromide, 98+%	
A10249-22	100g	1643-19-2
A10249-36	500g	1643-19-2
	Tetraethylammonium bromide, 99+%	
220710500	50gr	71-91-0
220712500	250gr	71-91-0
220715000	500gr	71-91-0
	Tetrahexylammonium bromide, 99%	
420401000	100gr	4328-13-6

Product Code	Stock Unit	CAS No.
	Choline chloride,98+%	
A15828-22	100g	67-48-1
A15828-36	500g	67-48-1
	Benzyldimethyl-n-dodecylammonium chloride, 98%	
H60196-06	5g	0139-07-01

Product Code	Stock Unit	CAS No.
	(2-Chloroethyl) trimethylammonium chloride, 98% (dry wt.) may cont. up to 5% water	
A15630-06	5g	999-81-5
A15630-14	25g	999-81-5
	Tetraethylammonium hexafluorophosphate, 98%	
016256-09	10g	0429-07-02
016256-18	50g	0429-07-02
	Tetrabutylammonium bromide, 99+%	
185680250	25gr	1643-19-2

Product Code	Stock Unit	CAS No.
	Tetramethylammonium hydroxide, 25% in water	
420521000	100gr	75-59-2
	Tetramethylammonium hydroxide, 25% w/w in methanol	
030833-22	100g	75-59-2
	Tetramethylammonium hydroxide, 25% w/w aq. soln.	
L09991-AK	250mL	75-59-2
L09991-AU	1000mL	75-59-2
	Tetra-n-butylammonium fluoride, 1M soln. in THF	
A10588-AC	25mL	429-41-4
A10588-AE	100mL	429-41-4
A10588-AP	500mL	429-41-4
	Tetra-n-butylammonium acetate, 1.0M aq. soln.	
B24773-14	25g	10534-59-5
	Tetra-n-butylammonium hydrogen sulfate, 97%	
A14047-0B	1000g	32503-27-8
A14047-18	50g	32503-27-8
A14047-30	250g	32503-27-8

Product Code	Stock Unit	CAS No.
	Tetramethylammonium chloride,99+%	
138330010	1kg	75-57-0
138331000	100gr	75-57-0
138332500	250gr	57-57-0

Product Code	Stock Unit	CAS No.
	Tetra-n-butylammonium fluride,75% w/w aq. soln.	
B21261-14	25g	429-41-4
B21261-22	100g	429-41-4
	Tetramethylammonium chloride, 97%	
A13288-30	250g	75-57-0
	Tetramethylammonium fluoride tetrahydrate, 98%	
A17864-06	5g	17787-40-5
	Tetraethlammonium tetrafluoroborate,99%	
A10211-06	5g	429-06- 1
A10211-18	50g	429-06- 1
A10211-22	100g	429 -06- 1
A10211-30	250g	429-06- 1
	Tetramethylammonium hydroxide, 10% in water	
420510010	1kg	75-59- 2
420511000	100gr	75-59- 2
	Tetramethylammonium hydroxide pentahydrate, 98%	
4205310010	100gr	10424-65- 4
L09658-22	100g	10424-65- 4

Product Code	Stock Unit	CAS No.
	Di-n-decyl dimenthylammonium bromide, 80% aq.gel	
A17196-14	25g	3109-63- 5
A17196-22	100g	3109-63- 5
	Tetra-n-butylammonium hydroxide, 1.0 M aq.soln.	
046315-AE	100mL	2-52-49- 5
	Tetramethylammonium bromide, 98% %	
A13368-22	100g	64-20- 0
	Tetra-n-butylammonium phosphate,99+%.	
019261-02	0,5g	5574-97- 0
019261-04	2g	5574-97- 0
019261-09	10g	5574-97- 0
019261-18	50g	5574-97- 0

Product Code	Stock Unit	CAS No.
	Tetra-n-butylammonium hydroxide, 40% w/w aq. soln.	
L02809-0B	1000g	2052-49- 5
L02809-18	50g	2052-49- 5
L02809-30	250g	2052-49- 5
	Tetra-n-butylammonium hydroxide, 1.0M in methanol	
L08164-AE	100mL	2052-49- 5
L08164-AP	500mL	2052-49- 5
	Tetra-n-butylammonium phosphate,98%, non-UV	
046746-18	50g	5574-97- 0

Product Code	Stock Unit	CAS No.
	Tetra-n-butylammonium hydroxide, 40% w/w in methanol	
A12626-AE	100mL	2052-49- 5
A12626-AP	500mL	2052-49- 5
	Tetra-n-propylammonium hydrogen sulfate, 98%	
A12002-14	25g	5611-70- 2
	Tetra-n-propylammonium hydroxide 1 M aq. soln.	
L14328-14	25g	4499-86- 9
	Tetrapropylammonium perruthenate	
378390010	1gr	114615-82- 6
	Dimethyldioctadecylammoniun bromide, 99+ %	
408260050	5gr	3700-67- 2
408260250	25gr	3700-67- 2
408261000	100gr	3700-67- 2
	Tetrabutylammonium hydroxide,0.1N sol. in toluene/ methanol for non-ad.titr.	
23530025	2.5lt	2053-49- 5
23531000	100mL	2052-49- 5
23535000	500mL	2052-49- 5
	Tetra-n-butylammonium tetrafluoroborate, 99%	
A16688- 06	5g	429-42- 5
A16688-14	25g	429-42- 5
A16688-22	100g	429-42- 5

Product Code	Stock Unit	CAS No.
	Tetra-n-heptylammonium bromide,99%	
A15218-14	25g	4368-51- 8
A15218-22	100g	4368-51- 8
	Tetra-n-hexlylammonium bromide,98%	
A11372-18	50g	4328-13-6
	Tetra-n-butylammonium iodide, 98%	
A15484-18	50g	311-28-4
A15484-30	250g	311-28-4
	Tetra-n-propylammonium bromide, 98%	
A11522-22	100g	1941-30-6
	Tetra-n-octylammonium bromide, 98+ %	
A14929-09	10g	4499-86-9
	Tetra-n-propylammonium hydroxide, 40% w/w aq. soln.	
017456-22	100g	4499-86-9
	Tetra-n-propylammonium chloride, 99+%	
019379-03	1g	5810-42-4
019379-06	5g	5810-42-4
019379-14	25g	5810-42-4
	Tetra-n-propylammonium chloride, 99+%	
176612500	250gr	2052-49-5

For more product information, visit thermofisher.in/chemicals

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