



Chemicals and Reagents



Reagents and Chemical Products

Grade / Quality

Aware of the various applications and requirements for laboratory chemicals, we offer our users a wide range of qualities for our solvents and reagents, both general and specific.

To assist you in selecting the most suitable product for your application, we have created the Scharlab Solvents and Reagents Quality Table.

General solvents: General grades

EssentQ®

ExpertQ® ACS, Reag. Ph. Eur, ISO

Pharmpur®: Pharmacopoeia Monograph Products Ph. Eur, USP, BP, NF

Scharlab Reagents:

EssentQ®

ExpertQ® ACS, Reag. Ph Eur, ISO

Pharmpur®: Pharmacopoeia Monograph Products Ph Eur, USP, BP, NF

Specific Grades

HPLC	Supragradient	
	Gradient	
	Isocratic/ MultiSolvent®	ACS
UHPLC-MS		
LC-MS		
GC	Headspace GC Analysis	
	GC-MS	
	Ultra-trace GC Analysis	
	Residue GC Analysis	
Dry Solvents		
Anhydrous	With molecular sieves	
	Without molecular sieves	
Deuterated Spectrosol® (NMR)		
Organic Synthesis	Peptide synthesis	
	Oligonucleotide synthesis	
Molecular Biology		
Histology		
VLSI		
ASTM		

Ultrapure Acids Ultratrace®	ppt Grade	
	ppb Grade	
Volumetric Solutions	Ready-to-use	NIST
	Concentrated	
Low Hg content acids		ACS, ISO
Standards	ICP	NIST
	AAS	NIST
	GC	
	pH Standards NIST	NIST
	Ion Chromatography	NIST
	Conductivity	NIST
	Titrasure® Secondary Standards	ACS, NIST
Molecular Biology		
HPLC		
LC-MS / UHPLC-MS		
Aquagent® Karl Fischer Water Titration		
Deterlabo® Laboratory cleaning, utensils, and surfaces		
Histology		

EssentQ®, ExpertQ®, Pharmpur®, Multisolvent®, Ultratrace®, Spectrosol®, Deterlabo®, Titrasure® and **Aquagent®** are registered trademarks.

Custom Solutions

The challenges faced by professionals in laboratories and industries research centers vary. To address these needs, in addition to our comprehensive catalogue, Scharlab offers a wide range of solutions developed by our R&D department, all certified and validated by our quality laboratory.

Custom Solvent Purification

Scharlab has acquired vast experience in solvent purification. If none of our solvents meet your requirements, we can adapt the manufacturing and purification processes to your needs.

We have reactors with capacities ranging from 300 L to 5000 L, with the possibility of vacuum distillation, as well as distillation columns of various diameters and efficiencies.

Additionally, we perform chemical treatments to remove impurities, as well as microfiltration up to 0.2 μm or 0.1 μm .

Solvent Mixtures

We offer prepared mixtures of solvents so that you can avoid the risk of handling flammable substances.

Our facilities are equipped to handle all kinds of solvents and mixtures with minimal risk to the user.

Aqueous or Organic Solutions

- Volumetric solutions
- Buffers
- Mobile phases for chromatography

The preparation of standard solutions, buffers, and mobile phases for chromatography is crucial and time-consuming in the laboratory. Scharlab's mixing facility, with tanks ranging from 1000 L to 5000 L, enables us to offer ready-made solutions.

Packaging Variety

The versatility of our manufacturing facility located in Sentmenat (Barcelona) allows us to work with all kinds of chemical and packaging formats from 1 mL to 1000 L.

- Wide range of product packaging: bottles, cans, Kubitainers, drums, IBC.
- Wide variety of materials: glass, polyethylene, steel, etc., always taking into account the chemical product compatibility.

Custom Analysis and Specifications

Our laboratories are equipped with advanced analytical instrumentation for HPLC, GC, GC-Headspace, GC-MS, ICP-OES, ICP-MS, potentiometric titrations, Karl Fischer titrations, IR, fluorimetry, UV/Vis spectrophotometry, etc., enabling the certification of the specifications requested by the customer to be incorporated in the relevant Certificate of Analysis (CoA).



Reagents and Chemical Products

EssentQ®

Quality for products used in routine laboratory research.
Includes solvents and reagents used in organic synthesis.



ExpertQ®

The most suitable quality for analytical laboratory work. High-quality reagents for laboratories and specific industrial uses.
Includes solvents, inorganic salts, acids and bases, solutions, and mixtures.
Complies with ACS, ISO, and/or Reag. Ph. Eur. regulations.



MultiSolvent®

A unique quality for multiple applications.
Isocratic HPLC, UV Spectroscopy, Karl Fischer titrations.
ACS-grade analytical reagents.
Reduces errors and simplifies procurement.



Pharmpur®

Quality for products complying with a Pharmacopoeia Monograph (Ph. Eur, USP, or other pharmacopoeias).
Various packaging options based on needs: from small quantities to 25 kg or 200 L bulk.



Aquagent® Reagents for Karl Fischer titrations

Volumetric, coulometric titration solutions and standards.

New formulations.
Improved manufacturing processes.
More robust, stable, and versatile products.
Faster reaction speeds.
Exceptional quality.



Dry Solvents

Solvents with low water content, used in organic and inorganic synthesis.
Widely used in Karl Fischer titrations.

Chromatography

HPLC Solvents

Highly purified products.
Low UV absorption.
Low water, contaminant, and impurity content.
Microfiltered at 0.22 μm .
Batch-to-batch consistency.
Isocratic, Gradient, Supragradient, and Ultragradient grades.
Packaged in amber glass with a Teflon membrane cap to prevent contamination.
Available in returnable containers.

GC Solvents

Solvents for pesticide analysis by GC-ECD.
Solvents for organic environmental residue analysis by GC-FID and GC-ECD.
Headspace GC Solvents.
GC-MS Solvents. Low alkali metal content. Wide working range.



GC Standards

High purity.
Packaged under an inert atmosphere.



LC-MS and UHPLC-MS Solvents

Low alkali metal content, microfiltered at 0.1 μm .
Packaged under an inert gas atmosphere.
Packaged in passivated glass containers.
Cap with special septum to prevent plastic phthalate migration.
Available in mixtures and with additives.
Reserpine and digoxin tests to confirm suitability.



New PFAS free Solvents

Free of PFAS compounds above the maximum quantification limits defined by EPA 533 and EPA 537.1
Maximum sensitivity.
Minimal interference.
Also suitable for LC-MS/MS.



Ion Pair Reagents

Facilitate the separation of ionic samples and improve the resolution of the final chromatogram.
HPLC grade.



Anhydrous Solvents

High-purity anhydrous solvents with very low water content. The water content varies between 10 ppm and 30 ppm depending on the solvent. Quality guaranteed through strict Karl Fischer control.

Anhydrous with Molecular Sieves

Remain anhydrous due to the action of molecular sieves in each bottle. The sieves trap water traces that enter with the air when the bottle is opened for use.
Packaged under an inert gas atmosphere.



Anhydrous without Molecular Sieves

Packaged under an inert atmosphere to prevent environmental contamination.
Cap with septum allowing anhydrous solvent extraction with a syringe. Bottle packaged with a vacuum-sealed transparent bag to protect from moisture.



Reagents and Chemical Products

ICP Standards

For external calibration of ICP equipment.
Manufactured with metals of a minimum purity exceeding 99.99%, dissolved in ultrapure acids.
Directly traceable to NIST.
Concentrations of 1000 ppm and 10000 ppm.
Certificate of Analysis is sent with each standard.
Custom blends available upon request.



AAS Standards

Used as external standards for AAS equipment calibration.
Manufactured from high-purity elements and acids to ensure optimal performance.
Traceable to NIST.
Certificate of Analysis provided with the product.



Ultrapure Acids Ultratrace®

High purity, very low metal content.
Analytical results for more than 60 metals determined by ICP-MS.
With ppb and ppt grades (impurity limits).
HDPE or PTFE packaging, safer with no metal migration.



Reagents and Solvents for Oligonucleotide Synthesis



Reagents and solvents for oligonucleotide synthesis, including mixtures and compounds necessary for this application.

High-quality reagents and solvents.
Low water content.
Improved yields.
Custom formulations.



ExpertQ® Acids for FAAS and CVAAS

Up to 34 elements analysed.
Compliant with ACS and ISO standards.
Specific products with low mercury content (max. 5 ppb Hg).

Other Grades

Organic Synthesis

Solvents for peptide synthesis (used for the efficient solvation of peptide resin in solid-phase peptide synthesis) and DNA synthesis (anhydrous acetonitrile, in the absence of moisture, improves synthesis yield).

Spectrosol® Deuterated Solvents

Deuterated solvents used in Nuclear Magnetic Resonance (NMR) spectroscopy. Available in different isotopic purities.



Histology

Reagents and solvents specifically designed for use in laboratories and diagnostics.

VLSI

Solvents used in semiconductor production and the electronics industry, mainly for cleaning integrated circuits. Guaranteed to be free from water, metals, and particles.

ASTM

Reagents, solutions, and mixtures used in the analysis of lubricants and petroleum derivatives, manufactured in accordance with ASTM published methods.

Volumetric Solutions according to Pharmacopoeia

Volumetric solutions compliant with Pharmacopoeia (Reag. Ph. Eur or Reag. USP).

Guaranteed factor of 0.999-1.001.

All solutions are analysed using ISO 17034 accredited reference materials, measured according to ISO/IEC 17025 and traceable to NIST.

Complete Certificate of Analysis.

Ready for use.



Deterlabo®

Detergent for laboratory surfaces, utensils, and equipment.

Various formulations and presentations available, depending on the type of dirt or impurities and the type of washing (manual or machine).



Volumetric Solutions

Precise, reliable, and fully guaranteed solutions, ready for use.

Guaranteed factor of 1.000.

Analysed with ISO 17034 accredited reference materials, ISO/IEC 17025 certified.

Certificate of Analysis, including traceability to NIST.



pH Standards

Traceable to NIST.

Uncertainty of ± 0.01 pH units.

Certificate of Analysis with a pH vs temperature dependency table.

Available in a product range from pH 1 to pH 13.

Coloured solutions for pH 4, 7, and 10.



Conductivity Standards

Traceable to NIST.

Uncertainty < 1%.

Certificate of Analysis with a conductivity vs temperature dependency table.



Acids and Bases

ExpertQ® (for analytical work) and EssentQ® (for routine tasks).

Different packaging options according to needs: from small quantities to bulk containers of 200 litres.

Acids: glass bottle with a special plastic pourer to prevent dripping.

Some strong acids in safety glass bottles with an external polyethylene coating to prevent spills in case the bottle is dropped.



Titrasure® Secondary standards for volumetry

High purity.

Precisely determined content.

Certificate of Analysis with each standard.

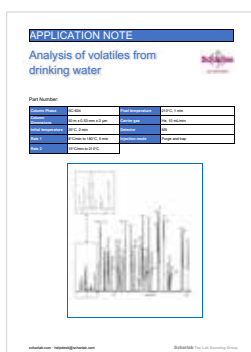
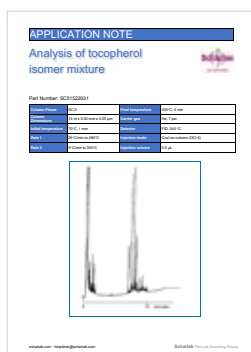
Traceable to NIST.



Chemispill®

Absorbents for laboratory spillages

- For acid, basic, aqueous and organic spills.
- High absorption power.
- High neutralisation capacity.
- Does not leave residual marks.
- Easy collection, without generating dusty waste.
- Chemispill® safety kit available in a transportable case.



**Discover our
chromatography catalogue**



Problems with the extraction method?
Implementing a new extraction procedure?
Implementing a new method?

Problems with the column?

**Scharlab offers
chromatography helpdesk,
contact us!**

helpdesk@scharlab.com

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Internal use

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