



Chem-lab is pleased to offer a large selection of High Purity Solvents.

Our High Purity Solvents are filtered through 0.2  $\mu\text{m}$  filters and bottled under nitrogen.

Our screw caps are fitted with an inner Teflon seal to protect the solvent against possible contamination after bottling and during storage.

FORR-LAB Kft.  
székhely: 1131 Budapest  
Madarász V. u. 1/A

Tel. +36 1 273 1378  
Fax. +36 1 273 1379  
info@forrlab.hu  
www.forrlab.hu

TELEPHELY  
1141 Budapest  
Fogarasi út 218

# Chem-Lab

---

## High Purity Solvents

---

- HPLC Grade Solvents
- Pesticide Grade Solvents
- LC-MS Grade Solvents
- Dissolution Media
- Ion Pair Reagents
- Anhydrous Solvents



ISO 9001 CERTIFIED "Tailor made reagents"



# HPLC Grade Solvents

- High UV transmission
- Filtered through 0.2 µm filters
- Low residue after evaporation
- Low water levels
- Low UV absorbance
- Lot-to-lot consistency

Article Number	Description	Pack size
CL00.0172	Acetone, HPLC grade	1 l, 2,5 l
CL00.0174	Acetonitrile, HPLC grade	1 l, 2,5 l
CL00.0175	Acetonitrile, HPLC gradient grade	1 l, 2,5 l
CL00.0189	Acetonitrile, HPLC super gradient grade	1 l, 2,5 l
CL00.0243	Butanol-(1), HPLC grade	2,5 l
CL00.0363	Chloroform, HPLC grade (Stabilized with Amylene)	1 l, 2,5 l
CL00.0376	Chloroform, HPLC grade (Stabilized with Ethanol)	1 l, 2,5 l
CL00.0377	Cyclohexane, HPLC grade	1 l, 2,5 l
CL00.0411	Dichloromethane, HPLC grade (Stabilized with Amylene)	1 l, 2,5 l
CL00.0410	Diethylether, HPLC grade (Store between 8 & 15°C)	1 l, 2,5 l
CL00.0417	Dioxan-(1,4), HPLC grade	2,5 l
CL00.0529	Ethanol, abs. 100%, HPLC grade	1 l, 2,5 l
CL00.0515	Ethyl acetate, HPLC grade	2,5 l
CL00.0522	Ethyl methyl ketone, HPLC grade (MEK)	2,5 l
CL00.0823	Heptane-(n) 95+%, HPLC grade	1 l
CL00.0816	Heptane-(n) 99+%, HPLC grade	1 l, 2,5 l
CL00.0824	Heptane-(n) fraction, HPLC grade	2,5 l
CL00.0815	Hexane-(n) 95%, HPLC grade	2,5 l
CL00.0817	Hexane-(n) 99%, HPLC grade	1 l, 2,5 l
CL00.0828	Hexane-(n) fraction, HPLC grade (mixture of isomers)	2,5 l
CL00.1363	Methanol, HPLC grade	1 l, 2,5 l
CL00.1364	Methanol, HPLC gradient grade	1 l, 2,5 l
CL00.1371	Methanol, HPLC super gradient grade	1 l, 2,5 l
CL00.1373	Methyl tert-butyl ether, HPLC grade (MTBE)	2,5 l
CL00.1505	Octane-(iso), HPLC grade	2,5 l
CL00.1625	Pentane-(n) 95+%, HPLC grade	2,5 l
CL00.1622	Pentane-(n) 99+%, HPLC grade	2,5 l
CL00.1631	Petroleum ether 40-60, HPLC grade	2,5 l
CL00.1632	Petroleum ether 60-80, HPLC grade	2,5 l
CL00.0924	Propanol-1 (n-Propanol), HPLC grade	2,5 l
CL00.0920	Propanol-2 (iso-Propanol), HPLC grade	1 l, 2,5 l
CL00.2027	Tetrahydrofuran, HPLC grade	1 l, 2,5 l
CL00.2028	Toluene, HPLC grade	1 l, 2,5 l
CL00.2033	Trichloroethylene, HPLC grade	2,5 l
CL02.0221	Water, HPLC grade	1 l, 2,5 l



# Pesticide Grade Solvents

## Additional specification for Pesticide grade products:

- Impurities causing interfering peaks on gas chromatogram are not greater than:  
5 ng/l of lindane by electron capture detection, 10ng/ml of ethylparathion by phos-phorous nitrogen detection.
- For residue analysis

Article Number	Description	Pack size
CL00.0191	Acetone, Pesticide grade	1 l 2,5 l
CL00.0190	Acetonitrile, Pesticide grade	2,5 l
CL00.0391	Chloroform, Pesticide grade (Stabilized with 1% ethanol)	2,5 l
CL00.0392	Cyclohexane, Pesticide grade	1 l 2,5 l
CL00.0419	Dichloromethane, Pesticide grade (Stabilized with Amylene)	1 l 2,5 l
CL00.0418	Diethylether, Pesticide grade (Store between 8 & 15°C)	1 l 2,5 l
CL00.0521	Ethyl acetate, Pesticide grade	2,5 l
CL00.0825	Heptane-(n) 95+%, Pesticide grade	2,5 l
CL00.0826	Hexane-(n) 95%, Pesticide grade	2,5 l
CL00.0827	Hexane-(n) 99%, Pesticide grade	2,5 l
CL00.1372	Methanol, Pesticide grade	2,5 l
CL00.1513	Octane(-iso), Pesticide grade	2,5 l
CL00.1633	Pentane-(-n) 99+%, Pesticide grade	2,5 l
CL00.1634	Petroleum ether 40-60, Pesticide grade	2,5 l
CL00.1635	Petroleum ether 60-80, Pesticide grade	2,5 l
CL00.0925	Propanol-2 (iso-Propanol), Pesticide grade	2,5 l
CL00.2034	Toluene, Pesticide grade	2,5 l



CHEM-LAB HIGH PURITY



# LC-MS Grade Solvents

## Additional specification for LC-MS grade products:

- Low alkaline metal content of maximum 0.1 ppm



Article Number	Description	Pack size
CL00.0194	Acetonitrile, LC-MS grade	1 l, 2,5 l
CL00.0524	Ethyl acetate, LC-MS grade	1 l, 2,5 l
CL00.1377	Methanol, LC-MS grade	1 l, 2,5 l
CL00.0926	Propanol-2 (iso-Propanol), LC-MS grade	1 l, 2,5 l
CL02.0240	Water, LC-MS grade	1 l, 2,5 l

# Dissolution Media

## Introducing the New Dissolution Media

Article Number	Description	Pack size
CL00.2720	Acetic acid glacial 99-100%, eluent additive for LC-MS	50 ml
CL02.0194	Acetonitrile with 0.1% acetic acid, LC-MS	1 l
CL02.0195	Acetonitrile with 0.1% formic acid, LC-MS	1 l
CL02.0196	Acetonitrile with 0.1% trifluoroacetic acid, LC-MS	1 l
CL00.2721	Ammonia 25 weight % solution, eluent additive for LC-MS	50 ml
CL02.0172	Ammonium acetate 10 mMol in Water, pH7 buffered, LC-MS	1 l
CL00.2722	Ammonium acetate, eluent additive for LC-MS	50 g
CL00.2723	Ammonium formate, eluent additive for LC-MS	50 g
CL02.1342	Formic acid 10% in water, for cleaning purposes, LC-MS	1 l
CL00.1388	Formic acid 98-100%, eluent additive for LC-MS	50 ml
CL02.1339	Methanol with 0.1% acetic acid, LC-MS	1 l
CL02.1341	Methanol with 0.1% ammonium acetate, LC-MS	1 l
CL02.1340	Methanol with 0.1% trifluoroacetic acid, LC-MS	1 l
CL02.0921	Propanol-2 (iso)/water 50/50 mixture, for cleaning purposes, LC-MS	5 l
CL00.2049	Triethylamine, eluent additive for LC-MS	50 ml
CL00.2050	Trifluoroacetic acid, eluent additive for LC-MS	50 ml
CL02.2103	Water with 0.1% acetic acid, LC-MS	1 l
CL02.2106	Water with 0.1% ammonium acetate, LC-MS	1 l
CL02.2104	Water with 0.1% formic acid, LC-MS	1 l
CL02.2105	Water with 0.1% trifluoroacetic acid, LC-MS	1 l



## Ion Pair Reagents

- High purity: 99+%
- Controlled pH
- Minimum UV absorption in the far UV
- Loss on drying

Article Number	Description	Pack size
<a href="#">CL00.0270</a>	Butane-1-sulfonic acid Na salt, IP HPLC grade	25 g
<a href="#">CL00.2948</a>	Cetyltrimethylammonium hydrogen sulfate, IP HPLC grade	25 g
<a href="#">CL00.0425</a>	Decane-1-sulfonic acid Na salt, IP HPLC grade	100 g
<a href="#">CL00.0471</a>	Dodecyl hydrogen sulfate Na salt, IP HPLC grade	25 g
<a href="#">CL00.0836</a>	Heptane-1-sulfonic acid Na salt, IP HPLC grade	100 g
<a href="#">CL00.0835</a>	Hexane-1-sulfonic acid Na salt, IP HPLC grade	100 g
<a href="#">CL00.1515</a>	Octane-1-sulfonic acid Na salt, IP HPLC grade	100 g
<a href="#">CL00.0198</a>	Pentane-1-sulfonic acid Na salt, IP HPLC grade	100 g
<a href="#">CL00.2091</a>	Tetramethylammonium hydrogen sulfate, IP HPLC grade	25 g

## Anhydrous Solvents

Introducing the New Anhydrous Solvents

Article Number	Description	Pack size
<a href="#">CL00.2746</a>	Acetonitrile, anhydrous a.r.	2,5 l
<a href="#">CL00.2907</a>	Chloroform, anhydrous a.r. (etoH)	2,5 l
<a href="#">CL00.2949</a>	Chloroform, anhydrous a.r. (amyl)	2,5 l
<a href="#">CL00.0473</a>	Dichloromethane, anhydrous a.r. (amyl)	2,5 l
<a href="#">CL00.0475</a>	Diethylether, anhydrous a.r. (BHT)	2,5 l
<a href="#">CL00.0476</a>	1,4-Dioxane, anhydrous a.r. (BHT)	2,5 l
<a href="#">CL00.0472</a>	Dimethylformamide, anhydrous a.r.	2,5 l
<a href="#">CL00.0474</a>	Dimethylsulfoxide, anhydrous a.r.	2,5 l
<a href="#">CL00.0548</a>	Ethyl acetate, anhydrous a.r.	2,5 l
<a href="#">CL00.0852</a>	Heptane(-n) 99%, anhydrous a.r.	2,5 l
<a href="#">CL00.0851</a>	Hexane(-n) 99%, anhydrous a.r.	2,5 l
<a href="#">CL00.3913</a>	Methanol, anhydrous a.r.	2,5 l
<a href="#">CL00.4039</a>	N-methylpyrrolidon, anhydrous a.r.	2,5 l
<a href="#">CL00.1688</a>	Pyridine, anhydrous a.r.	2,5 l
<a href="#">CL00.2092</a>	Tetrahydrofuran, anhydrous a.r. (BHT)	2,5 l
<a href="#">CL00.2093</a>	Toluene, anhydrous a.r.	2,5 l



# Strict Quality Control

- To guarantee our specifications, we perform strict GC quality controls.
- Our COA includes exactly marked impurities.
- For product specifications and additional technical information, please visit [www.chem-lab.be](http://www.chem-lab.be)

**Product Analysis Certificate**

Page 1 of 1

Art. Nr. : CL00.0175      Lot Nr. : 22.1690910.3000

Acetonitrile, HPLC gradient grade

99.9+% CH3CN

Use : For laboratory use, HPLC

Traceability Reference standards

Specifications	Spec. value	Batch value
Appearance	>99.9%	>99.9%
Density	<1100mg	<1100mg
Acidity	<0.0005mg/g	<0.0005mg/g
Water content	<0.0005%	<0.0005%
UV Absorbance @ 250nm	<0.005	<0.005
Transmittance @ 250nm	>70%	>70%
Transmittance @ 210nm	>80%	>80%
Transmittance @ 200nm	>80%	>80%
Transmittance @ 190nm	>80%	>80%
Transmittance @ 180nm	>80%	>80%
Transmittance @ 170nm	>80%	>80%

Chemist: Luk Bianchi      Date of release: 09-10-2014

Expires: Oct-2017

CHEM-LAB NV  
Industriezone "De Arenal" 28 B-1120 BRUXELLES - BELGIUM  
Tel. : +32 50 28 83 20 Fax. : +32 50 78 26 54 e-mail : info@chem-lab.be Web : www.chem-lab.be

Analysis

## SAMPLE Product Analysis Certificate

**Size Exclusion Report**

Page 1 of 1

Size Exclusion Report

Sample Name: CL 190.0227\_Acetonitrile gradient grade

Retention Time (min)	Area	Height	Width	Height/Width
19.98	1000000	100000	1000	100000

## SAMPLE Scan Analysis Report (On request)



**FORR-LAB Kft**  
Székhely:  
1131 Budapest  
Madarász v. u. 1/A

**TELEPEHELY**  
1141 Budapest,  
Fogarasi út 218  
info@forrlab.hu

Tel. +36 1 273 1378  
Fax. +36 1 273 1379  
info@forrlab.hu  
www.forrlab.hu

Tél. +36 1 273 1378  
Fax: +36 1 273 1379  
info@forrlab.hu

CHEM-LAB WE HAVE THE SOLUTIONS