

Chemicals for Liquid Chromatography techniques





Quality excellence is at the heart of RCI Labscan strategy.



Reliability based on efficient and standardized processes.



Consistent quality to ensure reliable analyses.





HPLC Grade

- For analytical and preparative separation.
- Mobile phase in HPLC or LC technique including gel permeation chromatography
- Suitable for various types of detector
- Use in the wavelength between 190-230 nm (Far UV region)

Gradient Grade

- For analytical and preparative separation.
- Mobile phase for gradient technique.
- Low baseline drift and low levels of impurities.

The LC reagents from RCI Labscan delivers and match yours all high standards, expectations and providing reliable results. Firmly backed by our commitment to innovation Research and Development, we now provide 68 availability of products.



LC-MS Grade

• For analytical and preparative separation.

11000

- Suitable for LC-MS analytical technique.
- Low level of trace metals and filtered through 0.1 µm filters.
- Low fluorescence and high UV transmittance.
- Low acidity & alkalinity, and low particulates to ensure minimal interference.

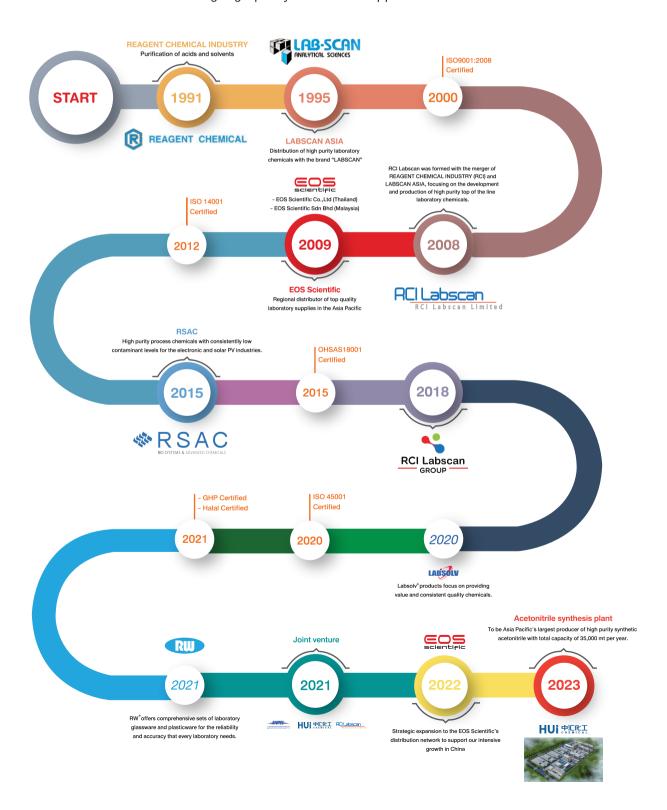
ULC-MS Grade

- For analytical and preparative separation.
- Designed to meet the high requirements of the updated chemical analysis equipment technologies.
- · Providing clear and reliable results in positive and negative modes.
- Suitable for ULC-MS analytical technique.
- It has high purity solvent with low level of trace metals and filtered through at least 0.1 µm filters.
- Low fluorescence and high UV transmittance.
- Low acidity & alkalinity, and low particulates to ensure minimal interference.

A timeline of our RCI Labscan group history

We're an industry leader

Established in 1991, RCI Labscan Group is a conglomerate of companies, comprising of RCI Labscan Limited, EOS Scientific, and RCI Systems & Advanced Chemicals. We manufacture and distribute high-purity chemicals for businesses in a wide variety of industries in over 20 countries. In doing so, our company has grown to become one of Asia Pacific's leading high purity chemicals supplier.



COMPANY PROFILE - RCI Labscan Limited

Company History RCI LABSCAN Limited

was established in 2008, from the acquisition and merger of Labscan Asia Co., Ltd and Reagent Chemical Industry Co., Ltd. The intensive investment also included the acquisition of Technology and Capability from USA, Europe (UK and Germany), and Asia. The company is already the preferred OEM supplier to a number of global multinational companies. With latest validity equipment, our Quality Control Laboratory is recognized as the Final Quality Testing Lab by some of its Multi-Nation Customer (MNC).

Our products are made available to customers under the brand RCI Labscan for chemical products with various laboratories as well as industrial applications.

With world-class technology and expertise, a strong commitment to excellence in quality, service and value to customers, RCI Labscan has grown rapidly to become one of the leading manufacturers and distributors of purified reagents in Asia.

Labscan Asia Co., LTD. (Established in 1995)

- Joint venture with VS General Chem Group and Labscan Ireland Ltd.
- Production of HIGH PURITY Laboratory Reagents.
- Strong in OEM business and Research/Laboratories in Asia.

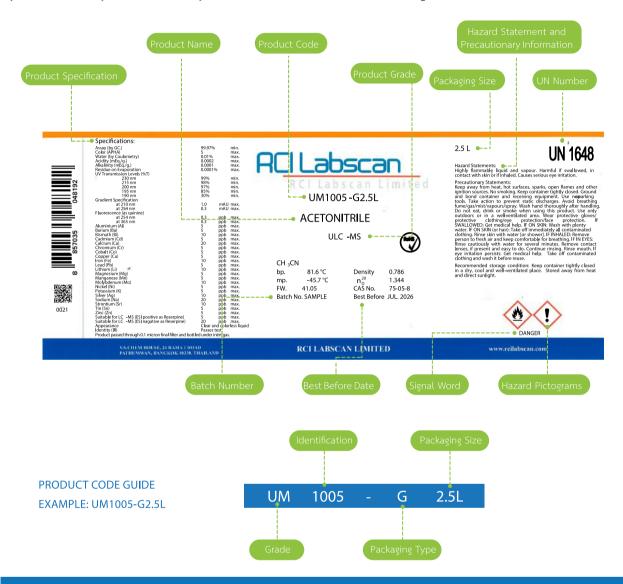
Reagent Chemical Co., LTD. (Established in 1991)

- Plant designed to produce Electronic Grade and Laboratory Grade ACIDS and SOLVENTS.
- Strong in OEM and Electronics Industry.



RCI LABSCAN LABEL

Our Label is designed to provide the necessary up to date information and is in compliance with the GHS system (Globally Harmonized System of Classification and Labelling of Chemicals)



Accreditations







ISO 14001



ISO 45001



GHP Certificate



Halal

PACKAGING

"Packaging for safety, convenience and product quality"

RCI Labscan products are available in a comprehensive range of packaging designed for safety, environmental protection, convenient handling and storage. All packaging are guaranteed to preserve the integrity of our products.



Amber Glass Bottles:

Suitable for photosensitive Chemicals.

We offer 500ml., 1 Litre, 2.5 Litre and 4 Litre size 500 ml. and 1 Litre: 6 bottles per box

2.5 Litre and 4 Litre: 4 bottles per box



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Acetonitrile

Density 1 L

UM1005-G1L

Glass

CH₃CN FW. 41.05 Melting Point -45.7 $^{\circ}$ C CAS-No. 75-05-8 Boiling Point 81.6 $^{\circ}$ C

0.786 Kg.

Acetonitrile, ULC-MS						UM1005
Specifications						
Assay (by GC.)	99.97%	min.	Iron (Fe)		10	ppb max.
Appearance	Clear and colorless liquid		Lead (Pb)		5	ppb max.
Identity (IR)	Passes test		Lithium (Li)		10	ppb max.
Color (APHA)	5	max.	Magnesium (Mg)		5	ppb max.
Water (by Coulometry)	0.01%	max.	Manganese (Mn)		5	ppb max.
Acidity (mEq./g.)	0.0002	max.	Molybdenum (Mo)		10	ppb max.
Alkalinity (mEq./g.)	0.0001	max.	Nickel (Ni)		5	ppb max.
Residue on Evaporation	0.0001%	max.	Potassium (K)		5	ppb max.
UV Transmission Levels (%T)			Silver (Ag)		10	ppb max.
230 nm	99%	min.	Sodium (Na)		20	ppb max.
215 nm	98%	min.	Strontium (Sr)		10	ppb max.
200 nm	97%	min.	Tin (Sn)		5	ppb max.
195 nm	85%	min.	Zinc (Zn)		5	ppb max.
190 nm	30%	min.	Suitable for LC-MS (ESI	positive as Reserpine)	5	ppb max.
Gradient Specification			Suitable for LC-MS (ESI	nagative as Reserpine)	20	ppb max.
at 210 nm	1.0	mAU max.				
at 254 nm	0.3	mAU max.	Product passed through	0.1 micron final filter ar	nd bottled un	der inert gas.
Fluorescence (as quinine)						
at 254 nm	0.3	ppb max.	mAU 3 210 nm			
at 365 nm	0.3	ppb max.	2 -			
Aluminium (Al)	5	ppb max.	2			
Barium (Ba)	5	ppb max.	6-			
Bismuth (Bi)	10	ppb max.	25 5 mAU 3 254 nm	7.5 10 12.5	15 17.5	20 m
Cadmium (Cd)	5	ppb max.	-1-		_	
Calcium (Ca)	20	ppb max.	2			
Chromium (Cr)	5	ppb max.	31			
Cobalt (Co)	5	ppb max.	0 2.5 5	7.5 10 12.5	15 17.5	20 m
Copper (Cu)	5	ppb max.				
Cat No.	Package	Size	Cat No.	Package		Size
UM1005-G500ML	Glass	500 ML	UM1005-G2.5L	Glass		2.5 Litre
111 44 00 F C41	-1			-1		

1 Litre

UM1005-G4L

Glass

4 Litre

Methanol

CH₃OH FW. 32.04 Melting Point -98 °C CAS-No. 67-56-1 Boiling Point 64.5 °C

Density 1 L 0.790 Kg.



Methanol, ULC-MS					UM1115
Specifications					
Assay (by GC.)	99.98%	min.	Magnesium (Mg)	5	ppb max.
Appearance	Clear and colorless liquid		Manganese (Mn)	5	ppb max.
Identity (IR)	Passes test		Molybdenum (Mo)	10	ppb max.
Color (APHA)	5	max.	Nickel (Ni)	5	ppb max.
Water (by Coulometry)	0.02%	max.	Potassium (K)	5	ppb max.
Acidity (mEq./g.)	0.0002	max.	Silver (Ag)	10	ppb max.
Alkalinity (mEq./g.)	0.0001	max.	Sodium (Na)	20	ppb max.
Residue on Evaporation	0.0001%	max.	Strontium (Sr)	10	ppb max.
Acetone (GC.)	0.001%	max.	Tin (Sn)	5	ppb max.
UV Transmission Levels (%T)			Zinc (Zn)	5	ppb max.
250 nm	99%	min.	Suitable for LC-MS (ESI positive as Reserpine)	5	ppb max.
240 nm	98%	min.	Suitable for LC-MS (ESI nagative as Reserpine)	20	ppb max.
230 nm	90%	min.			
220 nm	75%	min.	Product passed through 0.1 micron final filter a	nd bottled und	der inert gas.
210 nm	65%	min.			
Gradient Specification			220 nm mAU 3 30 1		
at 220 nm	4.0	mAU max.	25 - 20 -		
at 230 nm	2.0	mAU max.	15 ⁻¹ 10 ⁻¹		
at 235 nm	2.0	mAU max.	5-1		
at 254 nm	1.0	mAU max.	0 2.5 5 7.5 10 12.5	15 17.	5 20 min
Fluorescence (as quinine)			mAU 7 12.5 1 1 1 1 2.5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
at 254 nm	0.3	ppb max.	7.5 - 1 5 - 1 2.5 - 1		
at 365 nm	0.3	ppb max.	25 9		
Aluminium (Al)	5	ppb max.	5 5 7.5 10 12.5	15 17.	5 20 min
Barium (Ba)	5	ppb max.	235 nm		
Bismuth (Bi)	10	ppb max.	6 19 4 19 19 19 19 19 19 19 19 19 19 19 19 19		
Cadmium (Cd)	5	ppb max.	2-1		
Calcium (Ca)	20	ppb max.	4		
Chromium (Cr)	5	ppb max.		15 17.	5 20 min
Cobalt (Co)	5	ppb max.	mAU 4		
Copper (Cu)	5	ppb max.	1	/	/
Iron (Fe)	10	ppb max.	3		
Lead (Pb)	5	ppb max.	5 5 7.5 10 12.5	15 17.	5 20 min
Lithium (Li)	10	ppb max.			

Cat No.	Package	Size
UM1115-G500ML	Glass	500 ML
UM1115-G1L	Glass	1 Litre

Cat No.	Package	Size
UM1115-G2.5L	Glass	2.5 Litre
UM1115-G4L	Glass	4 Litre



Propan-2-ol

Density 1 L

 $(CH_3)_2CHOH$ FW. 60.10 Melting Point -89.5 °C CAS-No. 67-63-0 Boiling Point 82.4 °C



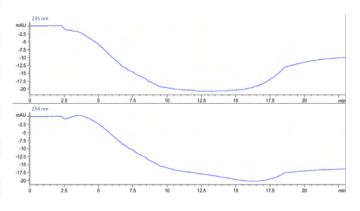
UM1162

Propan-2-ol, ULC-MS		
Specifications		
Assay (by GC.)	99.95%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	5	max.
Water (by Coulometry)	0.03%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0001	max.
Residue on Evaporation	0.0001%	max.
Carbonyl Compounds	0.002%	max.
(as propionaldehyde or acetone	e)	
Solubility in water	Passes test	
UV Transmission Levels (%T)		
250 nm	99%	min.
240 nm	98%	min.
230 nm	90%	min.
220 nm	80%	min.
210 nm	40%	min.
Gradient Specification		
at 235 nm	1.0	mAU max.
at 254 nm	1.0	mAU max.
Fluorescence (as quinine)		
at 254 nm	0.3	ppb max.
at 365 nm	0.3	ppb max.
Aluminium (Al)	5	ppb max.
Barium (Ba)	5	ppb max.
Bismuth (Bi)	10	ppb max.
Cadmium (Cd)	5	ppb max.
Calcium (Ca)	20	ppb max.
Chromium (Cr)	5	ppb max.
Cobalt (Co)	5	ppb max.

0.786 Kg.

Copper (Cu)	5	ppb max.
Iron (Fe)	10	ppb max.
Lead (Pb)	5	ppb max.
Lithium (Li)	10	ppb max.
Magnesium (Mg)	5	ppb max.
Manganese (Mn)	5	ppb max.
Molybdenum (Mo)	10	ppb max.
Nickel (Ni)	5	ppb max.
Potassium (K)	5	ppb max.
Silver (Ag)	10	ppb max.
Sodium (Na)	20	ppb max.
Strontium (Sr)	10	ppb max.
Tin (Sn)	5	ppb max.
Zinc (Zn)	5	ppb max.
Suitable for LC-MS (ESI positive as Reserpine)	5	ppb max.
Suitable for LC-MS (ESI nagative as Reserpine)	20	ppb max.

Product passed through 0.1 micron final filter and bottled under inert gas.



Cat No.	Package	Size
UM1162-G500ML	Glass	500 ML
UM1162-G1L	Glass	1 Litre

Cat No.	Package	Size
UM1162-G2.5L	Glass	2.5 Litre
UM1162-G4L	Glass	4 Litre

Tetrahydrofuran

 C_4H_8O FW. 72.11 Melting Point -108.5 $^{\circ}C$ CAS-No. 109-99-9 Boiling Point 65-66 $^{\circ}C$

Density 1 L 0.890 Kg.



Tetrahydrofuran, ULC-M	S				UM1200
Specifications					
Assay (by GC.)	99.95%	min.	Cobalt (Co)	10	ppb max.
Appearance	Clear and colorless liquid		Copper (Cu)	10	ppb max.
Identity (IR)	Passes test		Iron (Fe)	20	ppb max.
Color (APHA)	5	max.	Lead (Pb)	20	ppb max.
Water (by Coulometry)	0.02%	max.	Lithium (Li)	20	ppb max.
Acidity (mEq./g.)	0.0002	max.	Magnesium (Mg)	30	ppb max.
Alkalinity (mEq./g.)	0.0002	max.	Manganese (Mn)	10	ppb max.
Residue on Evaporation	0.0001%	max.	Molybdenum (Mo)	20	ppb max.
Peroxide (as H ₂ O ₂),	0.005%	max.	Nickel (Ni)	10	ppb max.
(at the time of manufacturing)			Potassium (K)	30	ppb max.
UV Transmission Levels (%T)			Silver (Ag)	20	ppb max.
280 nm	99%	min.	Sodium (Na)	50	ppb max.
270 nm	88%	min.	Strontium (Sr)	20	ppb max.
245 nm	55%	min.	Tin (Sn)	20	ppb max.
235 nm	40%	min.	Zinc (Zn)	20	ppb max.
215 nm	30%	min.	Suitable for LC-MS (ESI positive as Reserpine)	20	ppb max.
Gradient Specification					
at 254 nm	10	mAU max.	Product passed through 0.1 micron final filter a	nd bottled und	er inert gas.
at 280 nm	3	mAU max.	254 nm		
Fluorescence (s quinine)			20 -		
at 254 nm	1.0	ppb max.	10-		
at 365 nm	1.0	ppb max.	5		
Aluminium (Al)	10	ppb max.	0 25 5 75 10 125	15 17.5	20 mie
Barium (Ba)	10	ppb max.	280 nm		
Bismuth (Bi)	20	ppb max.	15		
Cadmium (Cd)	20	ppb max.	10-1		
Calcium (Ca)	30	ppb max.	0		
Chromium (Cr)	10	ppb max.	.5 0 2.5 5 7.5 10 12.5	15 17.5	20 mir
Cat No.	Package	Size	Cat No. Package		Size
UM1200-G500ML	Glass	500 ML	UM1200-G2.5L Glass		2.5 Litre

1 Litre

UM1200-G4L

Glass

4 Litre

UM1200-G1L

Glass



Water

 H_2O FW. 18.02 Melting Point 0 $^{\circ}C$ CAS-No. 7732-18-5 Boiling Point 100 $^{\circ}C$

Density 1 L 1.000 Kg.

Water, ULC-MS				UM12	10
Specifications					
Appearance	Clear and colorless liquid		Copper (Cu)	5 ppb m	nax.
Color (APHA)	5	max.	Iron (Fe)	10 ppb m	nax.
Resistivity (at the time of	18	min.	Lead (Pb)	5 ppb m	nax.
manufacturing), MohmXcm			Lithium (Li)	10 ppb m	nax.
Acidity (as Acetic acid)	0.0002%	max.	Magnesium (Mg)	5 ppb m	nax.
Alkalinity (as Ammonia),	0.0002%	max.	Manganese (Mn)	5 ppb m	nax.
(at the time of manufacturing)			Molybdenum (Mo)	10 ppb m	nax.
Residue on Evaporation	0.0001%	max.	Nickel (Ni)	5 ppb m	nax.
Chloride (Cl)	10	ppb max.	Potassium (K)	5 ppb m	nax.
Fluoride (F)	10	ppb max.	Silver (Ag)	10 ppb m	nax.
Nitrate (NO ₃)	10	ppb max.	Sodium (Na)	20 ppb m	nax.
Phosphate (PO ₄)	10	ppb max.	Strontium (Sr)	10 ppb m	nax.
Sulfate (SO ₄)	10	ppb max.	Tin (Sn)	5 ppb n	nax.
UV Transmission Levels (%T)			Zinc (Zn)	5 ppb n	nax.
230 nm	99%	min.	TOC	10 ppb m	nax.
200 nm	95%	min.	Suitable for LC-MS (ESI positive as Reserpine)	5 ppb m	nax.
Gradient Specification			Suitable for LC-MS (ESI nagative as Reserpine)	20 ppb m	nax.
at 210 nm	2.0	mAU max.			
at 254 nm	0.5	mAU max.	Product passed through 0.1 micron final filter.		
Fluorescence (as quinine)			210 nm mAU #		
at 254 nm	0.3	ppb max.	5		
at 365 nm	0.3	ppb max.	0 mg - 2.5 m		
Aluminium (Al)	5	ppb max.	-7.5 -10 -1		
Barium (Ba)	5	ppb max.	0 5 10 15 20 25 30 254 nm	35 40 45	mir
Bismuth (Bi)	10	ppb max.	mAU -		
Cadmium (Cd)	5	ppb max.	2		
Calcium (Ca)	10	ppb max.	4		
Chromium (Cr)	5	ppb max.	5 10 15 20 25 30	35 40 45	mir
Cobalt (Co)	5	ppb max.			

Cat No.	Package	Size
UM1210-G500ML	Glass	500 ML
UM1210-G1L	Glass	1 Litre

Cat No.	Package	Size
UM1210-G2.5L	Glass	2.5 Litre
UM1210-G4I	Glass	4 l itre

Acetic Acid

 CH_3COOH FW. 60.05 Melting Point 17 °C CAS-No. 64-19-7 Boiling Point 118 °C



Density 1 L 1.05 Kg.

Acetic Acid, Glacial LC-MS					LM1002
Specifications					
Assay (by acidimetry)	99.97%	min.	Iron (Fe)	20	ppb max.
Appearance	Clear and colorless liqui	d	Lead (Pb)	10	ppb max.
Water (by Coulometry)	0.2%	max.	Magnesium (Mg)	50	ppb max.
Color (APHA)	5	max.	Potassium (K)	50	ppb max.
Residue on Evaporation	0.0005%	max.	Sodium (Na)	50	ppb max.
Chloride (Cl)	0.2	ppm max.	Suitable for LC-MS	2	ppb max.
Sulfate (SO ₄)	0.5	ppm max.	(ESI positive as Reserpine)		ppb max.
Substances reducing dichromate	Passes test				
Substances reducing permanganate	Passes test		Product passed through 0.2 micron final filter.		
UV Transmission Levels (%T)					
300 nm	98%	min.			
280 nm	97%	min.	100 -		
275 nm	95%	min.	80 -		
265 nm	90%	min.	8 00-		
260 nm	80%	min.			
254 nm	30%	min.	40 -		
Aluminium (Al)	20	ppb max.	20 -		
Calcium (Ca)	50	ppb max.	e 250 255 250 275 300	325 350	OTE Warning to
Cobalt (Co)	10	ppb max.	449 450 479 300	Jan 390	370

Cat No.	Package	Size
LM1002-G500ML	Glass	500 ML
LM1002-G1L	Glass	1 Litre

Cat No.	Package	Size
LM1002-G2.5L	Glass	2.5 Litre
LM1002-G4L	Glass	4 Litre



Acetonitrile

Density 1 L

CH₃CN FW. 41.05 Melting Point -45.7 $^{\circ}$ C CAS-No. 75-05-8 Boiling Point 81.6 $^{\circ}$ C



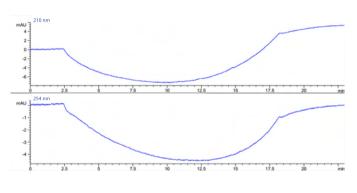
LM1005

Acetonitrile, LC-MS		
Specifications		
Assay (by GC.)	99.95%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	5	max.
Water (by Coulometry)	0.01%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0001	max.
Residue on Evaporation	0.0001%	max.
UV Transmission Levels (%T)		
230 nm	99%	min.
215 nm	98%	min.
200 nm	97%	min.
195 nm	85%	min.
190 nm	30%	min.
Gradient Specification		
at 210 nm	1.0	mAU max.
at 254 nm	0.5	mAU max.
Fluorescence (as quinine)		
at 254 nm	0.5	ppb max.
at 365 nm	0.3	ppb max.
Aluminium (Al)	5	ppb max.
Barium (Ba)	5	ppb max.
Cadmium (Cd)	5	ppb max.
Calcium (Ca)	20	ppb max.
Chromium (Cr)	5	ppb max.

0.786 Kg.

Cobalt (Co)	5	ppb max.
Copper (Cu)	5	ppb max.
Iron (Fe)	10	ppb max.
Lead (Pb)	5	ppb max.
Magnesium (Mg)	5	ppb max.
Manganese (Mn)	5	ppb max.
Nickel (Ni)	5	ppb max.
Potassium (K)	5	ppb max.
Sodium (Na)	20	ppb max.
Tin (Sn)	5	ppb max.
Zinc (Zn)	5	ppb max.
Suitable for LC-MS (ESI positive as Reserpine)	10	ppb max.

Product passed through 0.1 micron final filter and bottled under inert gas.



Cat No.	Package	Size
LM1005-G500ML	Glass	500 ML
LM1005-G1L	Glass	1 Litre

Cat No.	Package	Size
LM1005-G2.5L	Glass	2.5 Litre
LM1005-G4L	Glass	4 Litre

Methanol

Density 1 L

 CH₃OH
 FW. 32.04
 Melting Point
 -98
 °C

 CAS-No.
 67-56-1
 Boiling Point
 64.5
 °C

0.790 Kg.



Methanol, LC-MS			
Specifications			
Assay (by GC.)	99.95%	min.	Iron (Fe)
Appearance	Clear and colorless liquid		Lead (Pb)
Identity (IR)	Passes test		Magnesium (Mg)
Color (APHA)	5	max.	Manganese (Mn)
Vater (by Coulometry)	0.02%	max.	Nickel (Ni)
cidity (mEq./g.)	0.0003	max.	Potassium (K)
kalinity (mEq./g.)	0.0002	max.	Sodium (Na)
sidue on Evaporation	0.0001%	max.	Tin (Sn)
etone (GC.)	0.001%	max.	Zinc (Zn)
Transmission Levels (%T)			Suitable for LC-MS (ESI positive as Rese
250 nm	99%	min.	
240 nm	98%	min.	Product passed through 0.1 micron fina
230 nm	90%	min.	
220 nm	75%	min.	mAU 3
210 nm	65%	min.	10
adient Specification			5-1
at 230 nm	2.0	mAU max.	-2.5 mg
at 235 nm	2.0	mAU max.	0 2.5 5 7.5 10
at 254 nm	1.0	mAU max.	235 nm mAU 1
uorescence (s quinine)			4 1
at 254 nm	0.5	ppb max.	0
at 365 nm	0.5	ppb max.	-6
luminium (Al)	5	ppb max.	0 25 5 7.5 10 mAU 1
arium (Ba)	5	ppb max.	0
Cadmium (Cd)	5	ppb max.	-1 -1 -2 -1
alcium (Ca)	20	ppb max.	.3
hromium (Cr)	5	ppb max.	-5 1 2.5 5 7.5 10
Cobalt (Co)	5	ppb max.	
Copper (Cu)	5	ppb max.	

Cat No.	Package	Size
LM1115-G500ML	Glass	500 ML
LM1115-G1L	Glass	1 Litre

Cat No.	Package	Size
LM1115-G2.5L	Glass	2.5 Litre
LM1115-G4L	Glass	4 Litre



Propan-2-ol

Density 1 L

 $(CH_3)_2CHOH$ FW. 60.10 Melting Point -89.5 °C CAS-No. Boiling Point 82.4 °C



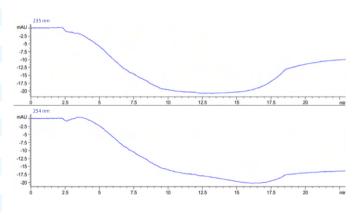
LM1162

Propan-2-ol, LC-MS		
Specifications		
Assay (by GC.)	99.95%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	5	max.
Water (by Coulometry)	0.03%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0002%	max.
Carbonyl Compounds	0.002%	max.
(as propional dehyde or acetone))	
Solubility in water	Passes test	
UV Transmission Levels (%T)		
250 nm	99%	min.
240 nm	98%	min.
230 nm	90%	min.
220 nm	80%	min.
210 nm	40%	min.
Gradient Specification		
at 235 nm	1.0	mAU max.
at 254 nm	1.0	mAU max.
Fluorescence (as quinine)		
at 254 nm	1.0	ppb max.
at 365 nm	0.5	ppb max.
Aluminium (Al)	5	ppb max.
Barium (Ba)	5	ppb max.
Cadmium (Cd)	5	ppb max.
Calcium (Ca)	20	ppb max.

0.786 Kg.

Chromium (Cr)	5	ppb max.
Cobalt (Co)	5	ppb max.
Copper (Cu)	5	ppb max.
Iron (Fe)	10	ppb max.
Lead (Pb)	5	ppb max.
Magnesium (Mg)	5	ppb max.
Manganese (Mn)	5	ppb max.
Nickel (Ni)	5	ppb max.
Potassium (K)	5	ppb max.
Sodium (Na)	20	ppb max.
Tin (Sn)	5	ppb max.
Zinc (Zn)	5	ppb max.
Suitable for LC-MS (ESI positive as Reserpine)	20	ppb max.

Product passed through 0.1 micron final filter and bottled under inert gas.



Cat No.	Package	Size
LM1162-G500ML	Glass	500 ML
LM1162-G1L	Glass	1 Litre

Cat No.	Package	Size
LM1162-G2.5L	Glass	2.5 Litre
LM1162-G4L	Glass	4 Litre

Tetrahydrofuran

 ${\rm C_4H_8O}$ FW. 72.11 Melting Point -108.5 $^{\circ}{\rm C}$ CAS-No. 109-99-9 Boiling Point 65-66 $^{\circ}{\rm C}$

Density 1 L 0.890 Kg.



Tetrahydrofuran, LC-MS					LM1200
Specifications					
Assay (by GC.)	99.95%	min.	Copper (Cu)	10	ppb max
Appearance	Clear and colorless liquid		Iron (Fe)	20	ppb max
Identity (IR)	Passes test		Lead (Pb)	20	ppb max
Color (APHA)	5	max.	Lithium (Li)	50	ppb max
Water (by Coulometry)	0.02%	max.	Magnesium (Mg)	30	ppb max
Acidity (mEq./g.)	0.0002	max.	Manganese (Mn)	20	ppb max
Alkalinity (mEq./g.)	0.0002	max.	Molybdenum (Mo)	50	ppb max
Residue on Evaporation	0.0001%	max.	Nickel (Ni)	20	ppb max
Peroxide (as H ₂ O ₂),	0.005%	max.	Potassium (K)	50	ppb max
(at the time of manufacturing)			Silver (Ag)	50	ppb max
UV Transmission Levels (%T)			Sodium (Na)	50	ppb max
280 nm	99%	min.	Strontium (Sr)	50	ppb max
270 nm	88%	min.	Tin (Sn)	50	ppb max
245 nm	55%	min.	Zinc (Zn)	50	ppb max
230 nm	35%	min.	Suitable for LC-MS (ESI positive as Reserpine)	50	ppb max
Gradient Specification					
at 254 nm	15	mAU max.	Product passed through 0.1 micron final filter a	nd bottled und	der inert gas
at 280 nm	3	mAU max.	254 nm		
Fluorescence (s quinine)			mAU 3		
at 254 nm	1.0	ppb max.	15		
at 365 nm	1.0	ppb max.	10-		
Aluminium (Al)	20	ppb max.			
Barium (Ba)	50	ppb max.	25 5 7.5 10 12.5	15 17.5	20
Bismuth (Bi)	50	ppb max.	mAU_		
Cadmium (Cd)	50	ppb max.	15-1		
Calcium (Ca)	30	ppb max.	5		
Chromium (Cr)	20	ppb max.	.5		
Cobalt (Co)	20	ppb max.	0 25 5 7.5 10 12.5	15 17.	5 20
Cat No.	Package	Size	Cat No. Package		Size
LM1200-G500ML	Glass	500 ML	LM1200-G2.5L Glass		2.5 Litr

1 Litre LM1200-G4L

Glass

4 Litre

LM1200-G1L

Glass



Water

Density 1 L

 H_2O FW. 18.02 Melting Point 0 $^{\circ}C$ CAS-No. 7732-18-5 Boiling Point 100 $^{\circ}C$

1.000 Kg.

Water, LC-MS						LM1210
Specifications						
Appearance	Clear and colorless liquid		Cobalt (Co)		5	ppb max
Color (APHA)	5	max.	Copper (Cu)		5	ppb max
Acidity (as Acetic acid)	0.0002%	max.	Iron (Fe)		10	ppb max
Alkalinity (as Ammonia)	0.0002%	max.	Lead (Pb)		5	ppb max
Residue on Evaporation	0.0001%	max.	Magnesium (Mg)		5	ppb max
Chloride (Cl)	10	ppb max.	Manganese (Mn)		5	ppb max
Fluoride (F)	10	ppb max.	Nickel (Ni)		5	ppb max
Nitrate (NO ₃)	100	ppb max.	Potassium (K)		5	ppb max
Sulfate (SO ₄)	100	ppb max.	Sodium (Na)		20	ppb max
UV Transmission Levels (%T)			Tin (Sn)		5	ppb max
230 nm	99%	min.	Zinc (Zn)		5	ppb max
200 nm	95%	min.	Suitable for LC-MS (ESI po	ositive as Reserpine)	10	ppb max
Gradient Specification						
at 210 nm	2.0	mAU max.	Product passed through 0.	1 micron final filter.		
at 254 nm	1.0	mAU max.	210 nm mAU 1			
Fluorescence (as quinine)			5 1 2.5 2			
at 254 nm	1.0	ppb max.	-2.5			
at 365 nm	0.5	ppb max.	-7.5 Ta			
Aluminium (Al)	5	ppb max.	254 nm	20 25 3	0 35 4	0 45
Barium (Ba)	5	ppb max.	mAU			
Cadmium (Cd)	5	ppb max.	2-			/
Calcium (Ca)	10	ppb max.	4			
Chromium (Cr)	5	ppb max.	5 10 15	20 25 36	0 35 4) 45
Cat No.	Package	Size	Cat No.	Package		Size
LM1210-G500ML	Glass	500 ML	LM1210-G2.5L	Glass		2.5 Litr
LM1210-G1L	Glass	1 Litre	LM1210-G4L	Glass		4 Litre

Acetonitrile

CH₃CN FW. 41.05 Melting Point **-**45.7 ℃ 81.6 °C CAS-No. 75-05-8 **Boiling Point**



Acetonitrile, Super Gradient for HPLC

SG1005

Size 2.5 Litre 4 Litre

Density 1 L

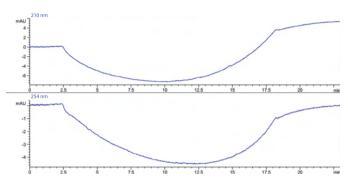
Specifications (Conforms to Reag. Ph.Eur)

(Comornis to Neag. Fin.Eur)		
Assay (by GC.)	99.9%	min.
Appearance	Clear and colorless liqui	d
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.02%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0002%	max.
UV Transmission Levels (%T)		
230 nm	99%	min.
195 nm	80%	min.
190 nm	30%	min.
Gradient Specification		
at 210 nm	1.0	mAU max.
at 254 nm	0.5	mAU max.

0.786 Kg.

Fluorescence (as quinine)		
at 254 nm	0.5	ppb max.
at 365 nm	0.5	ppb max.

Suitable for HPLC, UPLC / UHPLC / Ultra HPLC - instruments. Product passed through 0.2 micron final filter.



Cat No.	Package	Size	Cat No.	Package
SG1005-G500ML	Glass	500 ML	SG1005-G2.5L	Glass
SG1005-G1L	Glass	1 Litre	SG1005-G4L	Glass



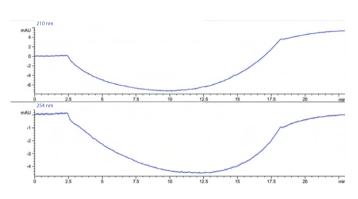


SG1006

Acetonitrile, Ultra Gradient for HPLC			
Specifications			
Assay (by GC.)	99.95%	min.	
Appearance	Clear and colorless liquic	l	
Identity (IR)	Passes test		
Color (APHA)	10	max.	
Water (by Coulometry)	0.01%	max.	
Acidity (as CH₃COOH)	0.001%	max.	
Alkalinity (as NH ₃)	0.0001%	max.	
Residue on Evaporation	0.0001%	max.	
UV Transmission Levels (%T)			
230 nm	99%	min.	
215 nm	98%	min.	
200 nm	97%	min.	
195 nm	85%	min.	
191 nm	30%	min.	
Gradient Specification : High	nest Peak		
at 210 nm	1.0	mAU max.	
at 254 nm	0.5	mAU max.	
Fluorescence (as quinine)			
at 254 nm	0.5	ppb max.	
at 365 nm	0.3	ppb max.	
Aluminium (Al)	20	ppb max.	
Barium (Ba)	50	ppb max.	
Cadmium (Cd)	50	ppb max.	
Calcium (Ca)	50	ppb max.	
Chromium (Cr)	20	ppb max.	

Cobalt (Co)	50	ppb max.
Copper (Cu)	20	ppb max.
Iron (Fe)	20	ppb max.
Lead (Pb)	20	ppb max.
Magnesium (Mg)	20	ppb max.
Manganese (Mn)	20	ppb max.
Nickel (Ni)	20	ppb max.
Potassium (K)	50	ppb max.
Sodium (Na)	100	ppb max.
Tin (Sn)	50	ppb max.
Zinc (Zn)	50	ppb max.

Suitable for HPLC, UPLC / UHPLC / Ultra HPLC - instruments. Product passed through 0.1 micron final filter and bottled under inert gas.



Cat No.	Package	Size
SG1006-G500ML	Glass	500 ML
SG1006-G1L	Glass	1 Litre

Cat No.	Package	Size
SG1006-G2.5L	Glass	2.5 Litre
SG1006-G4L	Glass	4 Litre

Ethanol

SG1380-G1L

 C_2H_5OH FW. 46.07 Melting Point -114.5 $^{\circ}C$ CAS-No. 64-17-5 Boiling Point 78.3 $^{\circ}C$

1 Litre



SG1380

Density 1 L 0.790 Kg.

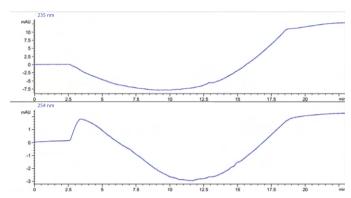
Ethanol, Super Gradient for HPLC		
Specifications		
Assay (by GC.)	99.7%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.1%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0002%	max.
UV Transmission Levels (%T)		
260 nm	98%	min.
240 nm	85%	min.
225 nm	60%	min.
Gradient Specification		
at 235 nm	5.0	mAU max.
at 254 nm	2.0	mAU max.
Fluorescence (as quinine)		

Fluorescence (as quinine	2)	
Cat No.	Package	Size
SG1380-G500ML	Glass	500 ML

Glass

at 254 nm	1.0	ppb max.
at 365 nm	0.5	ppb max.

Denatured with Tert Butyl Alcohol less than 0.15% (v/v).
Suitable for HPLC, UPLC / UHPLC / Ultra HPLC - instruments.
Product passed through 0.2 micron final filter.



Cat No.	Package	Size
SG1380-G2.5L	Glass	2.5 Litre
SG1380-G4L	Glass	4 Litre



Methanol

Density 1 L

CH $_3$ OH FW. 32.04 Melting Point -98 °C CAS-No. Boiling Point 64.5 °C



Methanol, Super Gradient for HPLC

SG1115

Specifications

(Conforms to Reag. Ph.Eur)

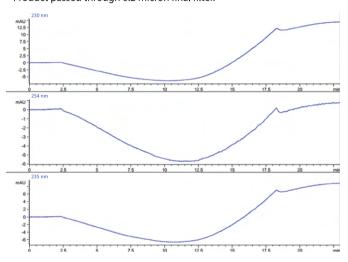
Assay (by GC.)	99.9%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.02%	max.
Acidity (mEq./g.)	0.0003	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0002%	max.
Acetone (GC.)	0.001%	max.
UV Transmission Levels (%T)		
250 nm	99%	min.
240 nm	98%	min.
230 nm	90%	min.
220 nm	75%	min.
210 nm	65%	min.
Gradient Specification		
at 230 nm	2.0	mAU max.
at 235 nm	2.0	mAU max.
at 254 nm	1.0	mAU max.

0.790 Kg.

Cat No.	Package	Size
SG1115-G500ML	Glass	500 ML
SG1115-G1L	Glass	1 Litre

Fluorescence (as quinine)		
at 254 nm	1.0	ppb max.
at 365 nm	0.5	ppb max.

Suitable for HPLC, UPLC / UHPLC / Ultra HPLC - instruments. Product passed through 0.2 micron final filter.



Cat No.	Package	Size
SG1115-G2.5L	Glass	2.5 Litre
SG1115-G4L	Glass	4 Litre

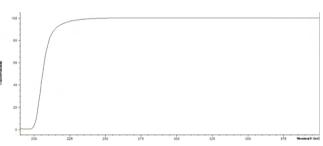
Methanol, Ultra Gradient for HPLC		
Specifications		
Assay (by GC.)	99.95%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.02%	max.
Acidity (mEq./g.)	0.0003	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0001%	max.
Acetone (GC.)	0.001%	max.
UV Transmission Levels (%T)		
250 nm	99%	min.
240 nm	98%	min.
230 nm	90%	min.
220 nm	75%	min.
210 nm	65%	min.
Gradient Specification		
at 230 nm	2.0	mAU max.
at 235 nm	2.0	mAU max.
at 254 nm	1.0	mAU max.
Fluorescence (as quinine)		
at 254 nm	0.5	ppb max.
at 365 nm	0.5	ppb max.
Aluminium (Al)	20	ppb max.
Barium (Ba)	50	ppb max.

Cadmium (Cd)	50	ppb max.
Calcium (Ca)	50	ppb max.
Chromium (Cr)	20	ppb max.
Cobalt (Co)	50	ppb max.
Copper (Cu)	20	ppb max.
Iron (Fe)	20	ppb max.
Lead (Pb)	20	ppb max.
Magnesium (Mg)	20	ppb max.
Manganese (Mn)	20	ppb max.
Nickel (Ni)	20	ppb max.
Potassium (K)	50	ppb max.
Sodium (Na)	100	ppb max.
Tin (Sn)	50	ppb max.
Zinc (Zn)	50	ppb max.

SG1473

Suitable for HPLC, UPLC / UHPLC / Ultra HPLC - instruments.

Product passed through 0.1 micron final filter and bottled under inert gas.



Cat No.	Package	Size
SG1473-G500ML	Glass	500 ML
SG1473-G1L	Glass	1 Litre

Cat No.	Package	Size
SG1473-G2.5L	Glass	2.5 Litre
SG1473-G4L	Glass	4 Litre



Propan-2-ol

Density 1 L

-89.5 °C (CH₃)₂CHOH FW. 60.10 **Melting Point** 82.4 °C CAS-No. 67-63-0 **Boiling Point**



Propan-2-ol, Super Gradient for HPLC

SG1162

Specifications		
Assay (by GC.)	99.9%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.03%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0002%	max.
UV Transmission Levels (%T)		
250 nm	99%	min.
230 nm	90%	min.
220 nm	80%	min.
Gradient Specification		
at 235 nm	1.0	mAU max.
at 254 nm	1.0	mAU max.

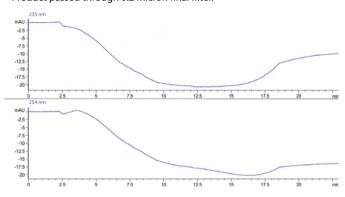
0.786 Kg.

specifications		
Assay (by GC.)	99.9%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.03%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0002%	max.
UV Transmission Levels (%T)		
250 nm	99%	min.
230 nm	90%	min.
220 nm	80%	min.
Gradient Specification		
at 235 nm	1.0	mAU max.
at 254 nm	1.0	mAU max.

Cat No.	Package	Size
SG1162-G500ML	Glass	500 ML
SG1162-G1L	Glass	1 Litre

Fluorescence (as quinine)		
at 254 nm	1.0	ppb max.
at 365 nm	0.5	ppb max.

Suitable for HPLC, UPLC / UHPLC / Ultra HPLC - instruments. Product passed through 0.2 micron final filter.



Cat No.	Package	Size
SG1162-G2.5L	Glass	2.5 Litre
SG1162-G4L	Glass	4 Litre



Acetic Acid Glacial

Density 1 L

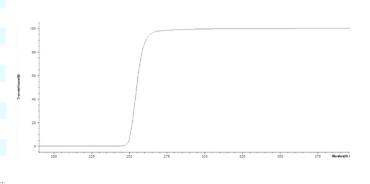
17 °C CH₃COOH FW. 60.05 **Melting Point** 118 °C CAS-No. 64-19-7 **Boiling Point**



Acetic Acid, Glacial HPLC LC1002

Specifications		
Assay (by acidimetry)	99.8%	min.
Water (by Coulometry)	0.2%	max.
Color (APHA)	10	max.
Residue on Evaporation	0.0005%	max.
Chloride (Cl)	0.5	ppm max.
Sulfate (SO ₄)	0.5	ppm max.
UV Transmission Levels (%T)		
300 nm	98%	min.
280 nm	97%	min.
260 nm	80%	min.

1.05 Kg.



Product passed through 0.2 micron final filter.

Cat No.	Package	Size
LC1002-G500ML	Glass	500 ML
LC1002-G1L	Glass	1 Litre

0.790 Kg.

Cat No.	Package	Size
LC1002-G2.5L	Glass	2.5 Litre
LC1002-G4L	Glass	4 Litre

Acetone

Density 1 L

CH₃COCH₃ FW. 58.08 **Melting Point** -95.4 °C CAS-No. 56.2 °C 67-64-1 **Boiling Point**



ppb max.

LC1003 Acetone, HPLC Specifications Assay (by GC.) 99.8% min. 350 nm 98% min. Appearance Clear and colorless liquid 340 nm 85% min. Identity (IR) Passes test 335 nm 50% min. Fluorescence (as quinine)

Color (APHA)	10	max.
Water (by Coulometry)	0.2%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0002%	max.
Aldehyde (as HCHO)	0.002%	max.
Methanol (GC.)	0.05%	max.
Propan-2-ol (GC.)	0.05%	max.

Product passed through 0.2 micron final filter.
100 -
40

at 365 nm

Solubility in water	Passes test
Substances reducing permanganate	Passes test

UV Transmission Levels (%T)

355 nm	99%	min.

Cat No.	Package	Size
LC1003-G500ML	Glass	500 ML
LC1003-G1L	Glass	1 Litre

100 -	100 -	
80 -	89 -	
60 -	00-	
40 -	49-	
20 -	20 -	
0 -	200 225 260 275 360 325	360 375 Wevelenath (not)

Cat No.	Package	Size
LC1003-G2.5L	Glass	2.5 Litre
LC1003-G4L	Glass	4 Litre



Acetone, HPLC Plus					LC1004
Specifications					
Assay (by GC.)	99.8%	min.	340 nm	85%	min.
Appearance	Clear and colorle	ess liquid	335 nm	50%	min.
Identity (IR)	Passes test		Fluorescence (as quinine)		
Color (APHA)	10	max.	at 365 nm	1	ppb max.
Water (by Coulometry)	0.2%	max.	Silicone oil	Free	
Acidity (mEq./g.)	0.0002	max.	DOP	Free	
Alkalinity (mEq./g.)	0.0002	max.	Amide	Free	
Residue on Evaporation	0.0002%	max.	Product passed through 0	2 micron final filtor	
Aldehyde (as HCHO)	0.002%	max.		.2 micron miai miter.	
Methanol (GC.)	0.05%	max.	100 -		
Propan-2-ol (GC.)	0.05%	max.	80 -	/	/
Solubility in water	Passes test		8 00		
Substances reducing permangana	ate Passes test		1 (vicionis):		
UV Transmission Levels (%T)			20-		
355 nm	99%	min.			
350 nm	98%	min.	200 225 250	275 300 325	350 375 Wevelength (and
Cat No. P	ackage	Size	Cat No.	Package	Size
LC1004-G500ML G	lass	500 ML	LC1004-G2.5L	Glass	2.5 Litre
LC1004-G1L G	lass	1 Litre	LC1004-G4L	Glass	4 Litre

Acetonitrile

CH₃CN	FW. 41.05	Melting Point	-45.7 °C
CAS-No.	75-05-8	Boiling Point	81.6 °C
D 11 41	0.706 1/		



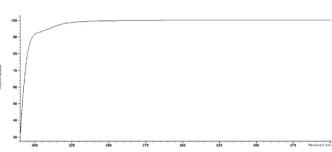
Density 1 L	0.786 Kg.				
Acetonitrile, HPLC					LC1005
Specifications					
Assay (by GC.)	99.9%	min.	195 nm	70%	min.
Appearance	Clear and colorless	liquid	Fluorescence (as quinir	ne)	
Identity (IR)	Passes test		at 254 nm	0.5	ppb max.
Color (APHA)	10	max.	at 365 nm	0.5	ppb max.
Water (by Coulometry)	0.02%	max.	Product passed through	h 0.2 micron final filter.	
Acidity (mEq./g.)	0.0005	max.	1	11 0.2 microm mai miter.	
Alkalinity (mEq./g.)	0.0002	max.	100-		
Residue on Evaporation	0.0002%	max.	80		
UV Transmission Levels (%T)			26 70 -		
250 nm	99%	min.	Transmitte		
240 nm	98%	min.	50 -		
230 nm	97%	min.	40 -		
210 nm	93%	min.	200 225 2:	0 275 300 325	350 375 Wevelength (nm)
Cat No.	Package	Size	Cat No.	Package	Size
LC1005-G500ML	Glass	500 ML	LC1005-G2.5L	Glass	2.5 Litre
LC1005-G1L	Glass	1 Litre	LC1005-G4L	Glass	4 Litre

Acetonitrile, HPLC Plus			
Specifications			
Assay (by GC.)	99.9%	min.	
Appearance	Clear and colorless I	iquid	
Identity (IR)	Passes test		Silic
Color (APHA)	10	max.	DOF
Water (by Coulometry)	0.02%	max.	Ami
Acidity (mEq./g.)	0.0005	max.	
Alkalinity (mEq./g.)	0.0002	max.	Prod
Residue on Evaporation	0.0002%	max.	100 -
UV Transmission Levels (%T)			90
250 nm	99%	min.	80
240 nm	98%	min.	70 - 70 - 70 - 70 - 70 - 70 - 70 - 70 -
230 nm	97%	min.	Transm
210 nm	93%	min.	50
195 nm	70%	min.	40
Fluorescence (as quinine)			30-

	at 254 nm	0.5	ppb max.	
	at 365 nm	0.5	ppb max.	
Silico	ne oil	Free		
DOP		Free		
Amid	e	Free		
Product passed through 0.2 micron final filter				

LC1219

Product passed through 0.2 micron final filter



Cat No.	Package	Size
LC1219-G500ML	Glass	500 ML
LC1219-G1L	Glass	1 Litre

Cat No.	Package	Size
LC1219-G2.5L	Glass	2.5 Litre
LC1219-G4L	Glass	4 Litre

Acetonitrile, Far UV for HPLC LC1007 Specifications Assay (by GC.) 99.9% Fluorescence (as quinine) min. Clear and colorless liquid Appearance at 254 nm 0.5 ppb max. Identity (IR) Passes test at 365 nm 0.5 ppb max. Color (APHA) 10 max. Water (by Coulometry) 0.02% Product passed through 0.2 micron final filter. max. Acidity (mEq./g.) 0.0005 max. Alkalinity (mEq./g.) 0.0002 max. Residue on Evaporation 0.0002% max. UV Transmission Levels (%T) 230 nm 99% min. 220 nm 98% min. 210 nm 95% min. 200 nm 80% min. 190 nm 30% min.

Cat No.	Package	Size
LC1007-G500ML	Glass	500 ML
LC1007-G1L	Glass	1 Litre

Cat No.	Package	Size
LC1007-G2.5L	Glass	2.5 Litre
LC1007-G4L	Glass	4 Litre



Acetonitrile, For LC Analysis LC1386 **Specifications** Assay (by GC.) 99.7% min. Appearance Clear and colorless liquid Color (APHA) 10 max. Water (by Coulometry) 0.1% max. Acidity (as CH₃COOH) 0.005% max. Residue on Evaporation 0.001% max. **UV** Absorbance 280 nm 0.01 AU max. 254 nm 0.02 AU max. 214 nm 0.15 AU max. 190 nm 1.00 AU max.

Product passed through 0.2 micron final filter.

Cat No.	Package	Size
LC1386-G500ML	Glass	500 ML
LC1386-G1L	Glass	1 Litre

Cat No.	Package	Size
LC1386-G2.5L	Glass	2.5 Litre
LC1386-G4I	Glass	4 Litre

Butan-1-ol

CH₃(CH₂)₃OH FW. 74.12 Melting Point -89.5 $^{\circ}$ C CAS-No. 71-36-3 Boiling Point 117 $^{\circ}$ C Density 1 L 0.810 Kg.



Butan-1-ol, HPLC					LC1024
Specifications					
Assay (by GC.)	99.8%	min.	Fluorescence (as quinine)		
Appearance	Clear and colorless liq	uid	at 254 nm	2	ppb max.
Identity (IR)	Passes test		at 365 nm	2	ppb max.
Color (APHA)	10	max.			
Water (by Coulometry)	0.05%	max.	Product passed through 0.2	2 micron final filter.	
Acidity (mEq./g.)	0.0002	max.			
Alkalinity (mEq./g.)	0.0002	max.	100		
Residue on Evaporation	0.0002%	max.	80		
UV Transmission Levels (%T)			8 60-		
310 nm	99%	min.	and the second s		
260 nm	95%	min.	E 40		
250 nm	90%	min.	20 -		
240 nm	85%	min.			
230 nm	75%	min.	200 225 250	275 300 325	350 375 Wavelingth (or
Cat No.	Package	Size	Cat No.	Package	Size
LC1024-G500ML	Glass	500 ML	LC1024-G2.5L	Glass	2.5 Litre
LC1024-G1L	Glass	1 Litre	LC1024-G4L	Glass	4 Litre

n-Butyl Acetate

 $CH_3COO(CH_2)_3CH_3$ FW. 116.16 Melting Point -76 °C CAS-No. 123-86-4 Boiling Point 126 °C



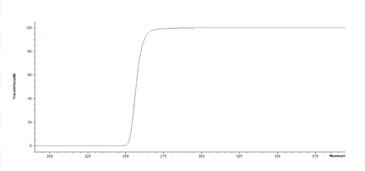
LC1025

Density 1 L 0.880 Kg.

n-Butyl Acetate, HPLC			
Specifications			
Assay (by GC.)	99.5%	min.	
Appearance	Clear and colorless liquid		
Identity (IR)	Passes test		
Color (APHA)	10	max.	
Water (by Coulometry)	0.05%	max.	
Acidity (mEq./g.)	0.0005	max.	
Residue on Evaporation	0.0005%	max.	
UV Transmission Levels (%T)			
360 nm	99%	min.	
320 nm	95%	min.	
300 nm	90%	min.	
280 nm	80%	min.	
260 nm	50%	min.	

Fluorescence (as quinine)		
at 365 nm	1	ppb max.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1025-G500ML	Glass	500 ML
LC1025-G1L	Glass	1 Litre

Cat No.	Package	Size
LC1025-G2.5L	Glass	2.5 Litre
LC1025-G4L	Glass	4 Litre

1-Chlorobutane

CH₃(CH₂)₃Cl FW. 92.58 Melting Point -123 $^{\circ}$ C CAS-No. 109-69-3 Boiling Point 78.4 $^{\circ}$ C Density 1 L 0.886 Kg.

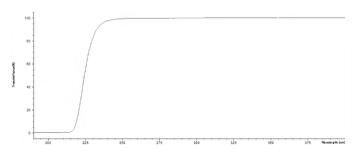


1-Chlorobutane, HPLC LC1031

Specifications		
Assay (by GC.)	99.8%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.03%	max.
Acidity (mEq./g.)	0.0005	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0003%	max.
UV Transmission Levels (%T)		
300 nm	99%	min.
280 nm	98%	min.
260 nm	95%	min.
240 nm	85%	min.
230 nm	65%	min.

Fluorescence (as quinine)		
at 365 nm	1	ppb max.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size	Cat No.	Package	Size
LC1031-G500ML	Glass	500 ML	LC1031-G2.5L	Glass	2.5 Litre
LC1031-G1L	Glass	1 Litre	LC1031-G4L	Glass	4 Litre



Chloroform

Density 1 L

 $CHCl_3$ FW. 119.38 Melting Point -63 °C CAS-No. Boiling Point 61 °C



LC1027E

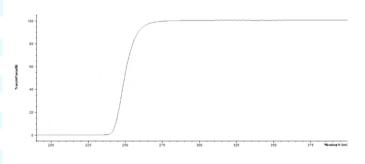
Chloroform, HPLC		
Specifications		
Assay (by GC.)	99.8%	min.
Appearance	Clear and colorless lic	γuid
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.01%	max.
Acidity (mEq./g.)	0.0005	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0003%	max.
Acetone and Aldehyde	Passes test	
Acid and Chloride	Passes test	
Free Chlorine (CI)	0.0005%	max.
Substances darkened by sulfuric acid	Passes test	
Suitability for use in dithizone tests	Passes test	
Lead (Pb)	0.05	ppm max.
UV Transmission Levels (%T)		
280 nm	99%	min.
270 nm	98%	min.

1.479 Kg.

260 nm	85%	min.
250 nm	50%	min.
Fluorescence (as quinine)		
at 254 nm	1	ppb max.
at 365 nm	1	ppb max.

Stabilized with about 1% ethanol.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1027E-G500ML	Glass	500 ML
LC1027E-G1L	Glass	1 Litre

Cat No.	Package	Size
LC1027E-G2.5L	Glass	2.5 Litre
LC1027E-G4L	Glass	4 Litre



Cyclohexane

 C_6H_{12} FW. 84.16 Melting Point 6 °C CAS-No. 110-82-7 Boiling Point 81 °C Density 1 L 0.779 Kg.



Cyclohexane, HPLC					LC1033
Specifications					
Assay (by GC.)	99.9%	min.	210 nm	60%	min.
Appearance	Clear and colorless	liquid	Fluorescence (as quinine)		
Identity (IR)	Passes test		at 254 nm	1	ppb max.
Color (APHA)	10	max.	at 365 nm	1	ppb max.
Water (by Coulometry)	0.01%	max.			
Acidity (mEq./g.)	0.0002	max.	Product passed through 0.2 mic	ron final filter.	
Alkalinity (mEq./g.)	0.0002	max.	100 -		
Residue on Evaporation	0.0002%	max.	90		
Substances darkened by sulfuric acid	Passes test		90		
UV Transmission Levels (%T)			8 05		
250 nm	99%	min.	80 -		
240 nm	98%	min.	76		
230 nm	95%	min.	70		
220 nm	80%	min.	es 1 200 225 280	275 300 325 360	375 Wavelengt

Cat No.

LC1033-G2.5L

LC1033-G4L

1									
1	.2-	Di	c	١l	OI	O	etl	ha	ne

Cat No.

LC1033-G500ML

LC1033-G1L

$C_2H_4CI_2$	FW. 98.96	Melting Point	-35 °C
CAS-No.	107-06-2	Boiling Point	83.5 °C
Density 1 L	1.250 Ka.		

Size

500 ML

1 Litre

Package

Glass

Glass

Glass



Size

2.5 Litre

4 Litre

4 Litre

Package

Glass

Glass

Glass

Density 1 L	1.250 Kg.				
1,2-Dichloroethane, H	PLC				LC1038
Specifications					
Assay (by GC.)	99.8%	min.	Fluorescence (as quir	nine)	
Appearance	Clear and colorless liquid	d	at 254 nm	1	ppb max.
Identity (IR)	Passes test		at 365 nm	1	ppb max.
Color (APHA)	10	max.			
Water (by Coulometry)	0.01%	max.	Product passed throu	igh 0.2 micron final filter.	
Acidity (mEq./g.)	0.0005	max.	,		
Alkalinity (mEq./g.)	0.0002	max.	100 -	<i></i>	
Residue on Evaporation	0.0003%	max.	80 -		
UV Transmission Levels (%T)			§ 00-		
300 nm	99%	min.	Transmitten		
280 nm	98%	min.			
260 nm	90%	min.	20 -		
250 nm	50%	min.	200 226	250 275 300 325	350 375 Wavelength (nm)
Cat No.	Package	Size	Cat No.	Package	Size
LC1038-G500ML	Glass	500 ML	LC1038-G2.5L	Glass	2.5 Litre

1 Litre

LC1038-G4L

LC1038-G1L



Dichloromethane

 CH_2Cl_2 FW. 84.93 Melting Point -95 °C CAS-No. 75-09-2 Boiling Point 40 °C



Density 1 L 1.330 Kg.

Dichloromethane, HPLC					LC1040A
Specifications					
Assay (by GC.)	99.9%	min.	Fluorescence (as quinine)		
Appearance	Clear and colorless liquid		at 254 nm	1	ppb max.
Identity (IR)	Passes test		at 365 nm	1	ppb max.
Color (APHA)	10	max.			
Water (by Coulometry)	0.01%	max.	Stabilized with about 50 ppm	n Amylene.	
Acidity (mEq./g.)	0.0002	max.	Product passed through 0.2 r	micron final filter.	
Alkalinity (mEq./g.)	0.0002	max.			
Residue on Evaporation	0.0003%	max.	100 -		
Free Chlorine (CI)	0.0002%	max.			
UV Transmission Levels (%T)					
260 nm	99%	min.	on - 00 -		
250 nm	98%	min.	59 40 -		
245 nm	90%	min.	20 -		
240 nm	75%	min.			
235 nm	40%	min.	260 226 250	275 300 3	5 350 375 Wavelength (or
Cat No.	Package	Size	Cat No.	Package	Size
LC1040A-G500ML	Glass	500 ML	LC1040A-G2.5L	Glass	2.5 Litre
LC1040A-G1L	Glass	1 Litre	LC1040A-G4L	Glass	4 Litre

Dichloromethane, HPLC	Plus				LC1041A
Specifications					
Assay (by GC.)	99.9%	min.	at 365 nm	1	ppb ma
Appearance	Clear and colorless liquid		Silicone oil	Free	
Identity (IR)	Passes test		DOP	Free	
Color (APHA)	10	max.	Amide	Free	
Water (by Coulometry)	0.01%	max.			
Acidity (mEq./g.)	0.0003	max.	Stabilized with about !		
Alkalinity (mEq./g.)	0.0002	max.	Product passed through	gh 0.2 micron final filter.	
Residue on Evaporation	0.0003%	max.			
Free Chlorine (Cl)	0.0002%	max.	100 -		
UV Transmission Levels (%T)			/		
260 nm	99%	min.	80 -		
250 nm	98%	min.	8 60-		
240 nm	75%	min.	Leader 10 - 40 -		
235 nm	40%	min.	20 -		
Fluorescence (as quinine)					
at 254 nm	1	ppb max.	200 225	250 275 300 325	350 375 Wavelers
Cat No.	Package	Size	Cat No.	Package	Size
LC1041A-G500ML	Glass	500 ML	LC1041A-G2.5L	Glass	2.5 Litr
LC1041A-G1L	Glass	1 Litre	LC1041A-G4L	Glass	4 Litre

Diethyl Ether

260 nm

250 nm

230 nm

 $(C_2H_5)_2O$ FW. 74.12 CAS-No. 60-29-7 Density 1 L 0.710 Kg. Melting Point $-116.3 \,^{\circ}\mathrm{C}$ Boiling Point $34.6 \,^{\circ}\mathrm{C}$



Diethyl Ether, HPLC LC1044B Specifications Assay (by GC.) 99.5% min. Fluorescence (as quinine) Appearance Clear and colorless liquid at 365 nm ppb max. Identity (IR) Passes test Stabilized with about 5 ppm BHT. Color (APHA) 10 max. Product passed through 0.2 micron final filter. Water (by Coulometry) 0.02% max. Acidity (mEq./g.) 0.0002 max. Residue on Evaporation 0.0005% max. Peroxide (as H₂O₂) 5 ppm max. UV Transmission Levels (%T) 300 nm 99% min. 280 nm 95% min.

min.

min.

min.

Cat No.	Package	Size
LC1044B-G500ML	Glass	500 ML
LC1044B-G1I	Glass	1 Litre

90%

80%

50%

Cat No.	Package	Size
LC1044B-G2.5L	Glass	2.5 Litre
LC1044B-G4L	Glass	4 Litre

Diethyl Ether, HPLC LC1046E **Specifications** Assay (by GC.) 99.5% min. Fluorescence (as quinine) Clear and colorless liquid at 365 nm Appearance 1 ppb max. Identity (IR) Passes test Stabilized with about 1% ethanol. Color (APHA) 10 max. Product passed through 0.2 micron final filter. Water (by Coulometry) 0.02% max. Acidity (mEq./g.) 0.0002 max. 0.0005% Residue on Evaporation max. Peroxide (as H₂O₂) 5 ppm max. UV Transmission Levels (%T) 280 nm 99% min. 260 nm 95% min. 250 nm 90% min. 240 nm 80% min. 230 nm 70% min. Cat No. **Package** Size Cat No. **Package** Size LC1046E-G500ML Glass Glass 500 ML LC1046E-G2.5L 2.5 Litre LC1046E-G1L Glass Glass 1 Litre LC1046E-G4L 4 Litre



Dimethylacetamide

Density 1 L

 $CH_3CON(CH_3)_2$ FW. 87.12 Melting Point -20 °C CAS-No. 127-19-5 Boiling Point 166 °C

0.940 Kg.



Dimethylacetamide, H	PLC				LC1050
Specifications					
Assay (by GC.)	99.8%	min.	Fluorescence (as quinine)		
Appearance	Clear and colorless liquid		at 365 nm	1	ppb max.
Identity (IR)	Passes test				
Color (APHA)	10	max.	Product passed through 0.2	! micron final filter.	
Water (by Coulometry)	0.05%	max.			
Acidity (mEq./g.)	0.0005	max.	100 -		
Residue on Evaporation	0.0005%	max.	80 -		
UV Transmission Levels (%T)			2 00-		
350 nm	99%	min.	Security of the security of th		
320 nm	98%	min.	40 -		
290 nm	85%	min.	20 -		
280 nm	80%	min.			
275 nm	60%	min.	200 225 250	276 300	325 350 376
Cat No.	Package	Size	Cat No.	Package	Size
LC1050-G500ML	Glass	500 ML	LC1050-G2.5L	Glass	2.5 Litre
LC1050-G1L	Glass	1 Litre	LC1050-G4L	Glass	4 Litre

Dimethylformamide

HCON(CH3)2FW. 73.10Melting Point-61 $^{\circ}$ CCAS-No.68-12-2Boiling Point153 $^{\circ}$ CDensity 1 L0.949 Kg.



Dimethylformamide, I	HPLC				LC1051
Specifications					
Assay (by GC.)	99.9%	min.	Fluorescence (as quinine)		
Appearance	Clear and colorless liquid		at 365 nm	1	ppb max.
Identity (IR)	Passes test				
Color (APHA)	10	max.	Product passed through 0.	2 micron final filter.	
Water (by Coulometry)	0.05%	max.			
Acidity (mEq./g.)	0.0005	max.	100 -		
Residue on Evaporation	0.0005%	max.	80 -		
UV Transmission Levels (%T)				
320 nm	99%	min.	7tanoe0		
300 nm	98%	min.	Transition 40		
290 nm	90%	min.	20 -		
280 nm	80%	min.			
275 nm	60%	min.	200 225 250	276 300 325	350 375
Cat No.	Package	Size	Cat No.	Package	Size
LC1051-G500ML	Glass	500 ML	LC1051-G2.5L	Glass	2.5 Litre
LC1051-G1L	Glass	1 Litre	LC1051-G4L	Glass	4 Litre

Dimethylsulphoxide

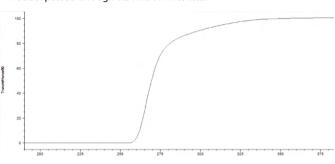
 $(CH_3)_2SO$ FW. 78.13 Melting Point 18.5 °C CAS-No. 67-68-5 Boiling Point 189 °C

Density 1 L 1.100 Kg.

Dimethylsulphoxide, HPLC					
Specifications					
Assay (by GC.)	99.9%	min.			
Appearance	Clear and colorless	liquid			
Identity (IR)	Passes test				
Color (APHA)	10	max.			
Water (by Coulometry)	0.05%	max.			
Acidity (mEq./g.)	0.0005	max.			
Residue on Evaporation	0.0005%	max.			
UV Transmission Levels (%T)					
360 nm	98%	min.			
340 nm	95%	min.			
330 nm	90%	min.			
310 nm	80%	min.			
290 nm	65%	min.			
Cat No.	Package	Size			

Fluorescence (as quinine)					
at 254 nm	2	ppb max.			
at 365 nm	2	ppb max.			

Product passed through 0.2 micron final filter.



Cat No.	Package	Size	Cat No.	Package	Size
LC1334-G500ML	Glass	500 ML	LC1334-G2.5L	Glass	2.5 Litre
LC1334-G1L	Glass	1 Litre	LC1334-G4L	Glass	4 Litre

1,4-Dioxan

 $C_4H_8O_2$ FW. 88.11 Melting Point 12 °C CAS-No. 123-91-1 Boiling Point 101.5 °C Density 1 L 1.030 Kg.



2.5 Litre

4 Litre

LC1334

1,4-Dioxan, HPLC LC1057 **Specifications** Assay (by GC.) 99.8% min. Fluorescence (as quinine) Clear and colorless liquid Appearance at 254 nm 5 ppb max. Identity (IR) Passes test at 365 nm 2 ppb max. Color (APHA) 10 max. Product passed through 0.2 micron final filter. Water (by Coulometry) 0.02% max. Acidity (mEq./g.) 0.0005 max. Alkalinity (mEq./g.) 0.0002 max. Residue on Evaporation 0.0002% max. UV Transmission Levels (%T) 290 nm 98% min. 280 nm 95% min. 270 nm 90% min. 260 nm 85% min. 250 nm 80% min. Cat No. Package Package Size Cat No. Size

500 ML

1 Litre

LC1057-G2.5L

LC1057-G4L

Glass

Glass

LC1057-G500ML

LC1057-G1L

Glass

Glass



Ethanol

Density 1 L

LC1380-G1L

Glass

 C_2H_5OH FW. 46.07 Melting Point -114.5 $^{\circ}C$ CAS-No. 64-17-5 Boiling Point 78.3 $^{\circ}C$

0.790 Kg.



Ethanol, HPLC					LC1380
Specifications (Conforms to ACS/BP/EP/USP/NF)					
Assay (by GC.)	99.7%	min.	Cadmium (Cd)	0.05	ppm ma
Appearance	Clear and colorless li	iquid	Calcium (Ca)	0.5	ppm ma
Identity (IR)	Passes test		Chromium (Cr)	0.02	ppm ma
Color (APHA)	10	max.	Copper (Cu)	0.02	ppm ma
Color of solution	Passes test		Gallium (Ga)	0.02	ppm ma
Clarity of solution	Passes test		Gold (Au)	0.02	ppm ma
Water (by Coulometry)	0.1%	max.	Indium (In)	0.02	ppm ma
Acid or alkalinity	30	ppm max.	Iron (Fe)	0.1	ppm ma
Acidity (mEq./g.)	0.0002	max.	Platinum (Pt)	0.02	ppm ma
Alkalinity (mEq./g.)	0.0002	max.	Lead (Pb)	0.1	ppm ma
Residue on Evaporation	0.0005%	max.	Lithium (Li)	0.02	ppm ma
Aldehydes (as Acetaldehyde)	0.001%	max.	Magnesium (Mg)	0.1	ppm ma
Carbonyl compounds (as CO)	0.003%	max.	Manganese (Mn)	0.02	ppm ma
Acetone (GC.)	0.001%	max.	Molybdenum (Mo)	0.02	ppm ma
Ethylmethylketone (GC.)	0.02%	max.	Nickel (Ni)	0.02	ppm ma
Higher alcohols (GC.)	0.01%	max.	Silver (Ag)	0.02	ppm ma
Isoamyl alcohol (GC.)	0.05%	max.	Tin (Sn)	0.1	ppm ma
Methanol (GC.)	0.01%	max.	Titanium (Ti)	0.02	ppm ma
Propan-2-ol (GC.)	0.003%	max.	Thallium (Tl)	0.02	ppm ma
Acetaldehyde and Acetal	10	ppm max.	Vanadium (V)	0.02	ppm ma
Benzene	2	ppm max.	Zinc (Zn)	0.1	ppm ma
Total of other impurities	300	ppm max.	Zirconium (Zr)	0.02	ppm ma
Disregard limit	9	ppm max.	UV Absorbance		
Fusel oil	Passes test		270 - 340 nm	0.10	AU max.
Readily carbonizable substances	Passes test		250 - 260 nm	0.30	AU max.
Solubility in water	Passes test		240 nm	0.40	AU max.
Substances reducing permanganate	0.0002%	max.			
Chloride (CI)	0.3	ppm max.	Denatured with Tert Butyl Alo	cohol less than 0.15% (v/v).	
Nitrate (NO₃)	0.3	ppm max.	,		
Phosphate (PO₄)	0.3	ppm max.	100 -		
Sulfate (SO ₄)	0.3	ppm max.	80 -		
Aluminium (Al)	0.5	ppm max.	P m		
Antimony (Sb)	0.02	ppm max.	Parametra de la constanta de l		
Arsenic (As)	0.02	ppm max.	40 -		
Barium (Ba)	0.1	ppm max.	20 -		
Beryllium (Be)	0.02	ppm max.			
Bismuth (Bi)	0.02	ppm max.	200 225 250	275 300 325	350 375
Cat No. Pack	age	Size	Cat No.	Package	Size
LC1380-G500ML Glass		500 ML	LC1380-G2.5L	Glass	2.5 Litı

1 Litre LC1380-G4L

Glass

4 Litre

Ethyl Acetate

Density 1 L

 $CH_3COOC_2H_5$ FW. 88.11 Melting Point -83 °C CAS-No. 141-78-6 Boiling Point 77 °C



Ethyl Acetate, HPLC LC1070

Specifications		
Assay (by GC.)	99.8%	min.
Appearance	Clear and colorless liqu	ıid
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.02%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0002%	max.
Substances darkened by sulfuric acid	Passes test	
UV Transmission Levels (%T)		
300 nm	99%	min.
270 nm	98%	min.
265 nm	80%	min.
260 nm	70%	min.

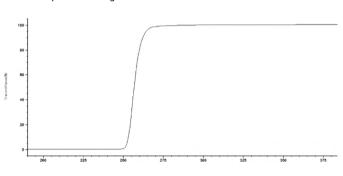
Package

Glass Glass

0.900 Kg.

Fluorescence (as quinine)		
at 254 nm	2	ppb max.
at 365 nm	1	ppb max.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1070-G2.5L	Glass	2.5 Litre
LC1070-G4L	Glass	4 Litre

n-Heptane

LC1070-G500ML

LC1070-G1L

Cat No.

$CH_3(CH_2)_5CH_3$	FW. 100.21	Melting Point	-90.5 ℃
CAS-No.	142-82-5	Boiling Point	97-98 °C
Density 1 L	0.680 Kg.		

min.

Size

500 ML

1 Litre

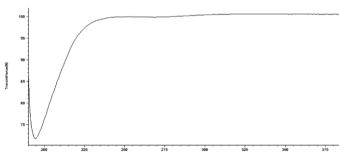


n-Heptane 95%, HPLC LC1078

Specifications		
Assay (by GC.)	95.0%	min.
Appearance	Clear and colorless liqu	uid
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.01%	max.
Acidity (mEq./g.)	0.0005	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0003%	max.
Substances darkened by sulfuric acid	Passes test	
UV Transmission Levels (%T)		
250 nm	99%	min.
240 nm	98%	min.
230 nm	95%	min.

210 nm	60%	min.
Fluorescence (as quinine)		
at 254 nm	1	ppb max.
at 365 nm	1	ppb max.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1078-G500ML	Glass	500 ML
LC1078-G1L	Glass	1 Litre

80%

220 nm

Cat No.	Package	Size
LC1078-G2.5L	Glass	2.5 Litre
LC1078-G4L	Glass	4 Litre



n-Heptane 99%, HPLC						LC1080
Specifications						
Assay (by GC.)	99.3%	min.	Fluorescence (as quinine)			
Appearance	Clear and colorless	liquid	at 254 nm	1		ppb max
Identity (IR)	Passes test		at 365 nm	1		ppb max
Color (APHA)	10	max.				
Water (by Coulometry)	0.01%	max.	Product passed through 0.2 m	icron final filter.		
Acidity (mEq./g.)	0.0002	max.				
Alkalinity (mEq./g.)	0.0002	max.				
Residue on Evaporation	0.0002%	max.	100 -			
Substances darkened by sulfuric acid	l Passes test		95			
UV Transmission Levels (%T)			90			
250 nm	99%	min.	85			
240 nm	98%	min.	80 -			
230 nm	95%	min.	75 -			
220 nm	80%	min.	70			
210 nm	60%	min.	200 225 250	275 300	325 35	375
Cat No. Pack	age	Size	Cat No.	Package		Size
LC1080-G500ML Glas	s	500 ML	LC1080-G2.5L	Glass		2.5 Litre
LC1080-G1L Glas	s	1 Litre	LC1080-G4L	Glass		4 Litre

Heptane Fraction

 C_7H_{16} FW. 100.21 Melting Point -90.5 °C CAS-No. 142-82-5 Boiling Point 97-98 °C

Density 1 L 0.680 - 0.690 Kg.



Heptane Fraction, HPLC					LC1082
Specifications					
Assay (by GC.)	85.0%	min.	Fluorescence (as quinine)		
Appearance	Clear and colorless I	iquid	at 254 nm	1	ppb max.
Identity (IR)	Passes test		at 365 nm	1	ppb max.
Color (APHA)	10	max.			
Water (by Coulometry)	0.01%	max.	Product passed through 0.2	micron final filter.	
Acidity (mEq./g.)	0.0005	max.			
Alkalinity (mEq./g.)	0.0002	max.			
Residue on Evaporation	0.0003%	max.	100		
Substances darkened by sulfuric acid	Passes test		96		
UV Transmission Levels (%T)			90		
250 nm	99%	min.	85		
240 nm	98%	min.	T 80 -		
230 nm	95%	min.	75		
220 nm	80%	min.	70		
210 nm	60%	min.	200 225 250	275 300 325	350 375
Cat No. Pack	age	Size	Cat No.	Package	Size
LC1082-G500ML Glass		500 ML	LC1082-G2.5L	Glass	2.5 Litre
LC1082-G1L Glass		1 Litre	LC1082-G4L	Glass	4 Litre

n-Hexane

CH₃(CH₂)₄CH₃ FW. 86.18 -94.3 °C **Melting Point** CAS-No. °C 110-54-3 **Boiling Point** 69 Density 1 L 0.660 Kg.



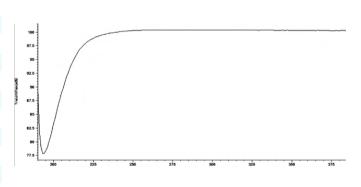
LC1084

LC1083 n-Hexane 95%, HPLC

Specifications		
Assay (by GC.)	95.0%	min.
Appearance	Clear and colorless liqu	uid
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.01%	max.
Acidity (mEq./g.)	0.0005	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0003%	max.
Substances darkened by sulfuric acid	Passes test	
UV Transmission Levels (%T)		
240 nm	99%	min.
230 nm	98%	min.
220 nm	90%	min.
210 nm	70%	min.
200 nm	50%	min.

Fluorescence (as quinine)		
at 254 nm	1	ppb max.
at 365 nm	1	ppb max.

Product passed through 0.2 micron final filter.

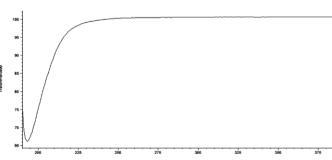


Cat No.	Package	Size	Cat No.	Package
LC1083-G500ML	Glass	500 ML	LC1083-G2.5L	Glass
LC1083-G1L	Glass	1 Litre	LC1083-G4L	Glass

Cat No.	Package	Size
LC1083-G2.5L	Glass	2.5 Litre
LC1083-G4L	Glass	4 Litre

n-Hexane 95%, HPLC Plus Specifications Assay (by GC.) 95.0% min. Appearance Clear and colorless liquid Identity (IR) Passes test Color (APHA) 10 max. Water (by Coulometry) 0.01% max. Acidity (mEq./g.) 0.0005 max. Alkalinity (mEq./g.) 0.0002 max. Residue on Evaporation 0.0003% max. Substances darkened by sulfuric acid Passes test UV Transmission Levels (%T) 240 nm 99% min. 230 nm 98% min. 220 nm 90% min. 210 nm 70% min. 200 nm 50% min. Fluorescence (as quinine)

	at 254 nm	1	ppb max.	
	at 365 nm	1	ppb max.	
Silicone	e oil	Free		
DOP		Free		
Amide		Free		
Product passed through 0.2 micron final filter				



Cat No.	Package	Size
LC1084-G500ML	Glass	500 ML
LC1084-G1L	Glass	1 Litre

Cat No.	Package	Size
LC1084-G2.5L	Glass	2.5 Litre
LC1084-G4L	Glass	4 Litre



n-Hexane 99%, HPLC					LC1085
Specifications					
Assay (by GC.)	99.0%	min.	Fluorescence (as quinine)		
Appearance	Clear and colorles	ss liquid	at 254 nm	1	ppb max
ldentity (IR)	Passes test		at 365 nm	1	ppb max
Color (APHA)	10	max.			
Water (by Coulometry)	0.01%	max.	Product passed through 0.2	2 micron final filter.	
Acidity (mEq./g.)	0.0002	max.			
Alkalinity (mEq./g.)	0.0002	max.	100 -		
Residue on Evaporation	0.0001%	max.	96		
Substances darkened by sulfuric acio	Passes test				
UV Transmission Levels (%T)			8 20 -		
240 nm	99%	min.	85 -		
230 nm	98%	min.	80 -		
220 nm	90%	min.	76		
210 nm	70%	min.	200 225 250	275 300 325	350 375
200 nm	50%	min.			
Cat No. Pacl	age	Size	Cat No.	Package	Size
LC1085-G500ML Glas	s	500 ML	LC1085-G2.5L	Glass	2.5 Litı
LC1085-G1L Glas	S	1 Litre	LC1085-G4L	Glass	4 Litre

n-Hexane 99%, HPLC I	Plus				LC1086
Specifications					
Assay (by GC.)	99.0%	min.	at 365 nm	1	ppb max.
Appearance	Clear and colorle	ess liquid	Silicone oil	Free	
Identity (IR)	Passes test		DOP	Free	
Color (APHA)	10	max.	Amide	Free	
Water (by Coulometry)	0.01%	max.			
Acidity (mEq./g.)	0.0005	max.	Product passed through	h 0.2 micron final filter.	
Alkalinity (mEq./g.)	0.0002	max.	3		
Residue on Evaporation	0.0003%	max.	1		
Substances darkened by sulf	furic acid Passes test		100		
UV Transmission Levels (%T)			96		
240 nm	99%	min.	8 90		
230 nm	98%	min.	es estatitus es		
220 nm	90%	min.			
210 nm	70%	min.	so -		
200 nm	50%	min.	76		
Fluorescence (as quinine)			200 225	250 275 300 325	350 375
at 254 nm	1	ppb max.			
Cat No.	Package	Size	Cat No.	Package	Size
LC1086-G500ML	Glass	500 ML	LC1086-G2.5L	Glass	2.5 Litre
LC1086-G1L	Glass	1 Litre	LC1086-G4L	Glass	4 Litre

Hexanes

C₆H₁₄ FW. 86.18 Melting Point -94.3 °C CAS-No. 110-54-3 Boiling Point 69 °C Density 1 L 0.660 Kg.



2.5 Litre 4 Litre

Hexanes, HPLC	LC1090

Specifications				
Assay (by GC. : Total C_6 Isomers)	99.5%	min.		
Appearance	Clear and colorless liquid			
Identity (IR)	Passes test			
Color (APHA)	10	max.		
Water (by Coulometry)	0.01%	max.		
Acidity (mEq./g.)	0.0005	max.		
Residue on Evaporation	0.0003%	max.		
Substances darkened by sulfuric acid	Passes test			
UV Transmission Levels (%T)				
240 nm	99%	min.		
230 nm	98%	min.		
220 nm	90%	min.		
210 nm	70%	min.		
200 nm	50%	min.		
Fluorescence (as quinine)				
· • •				

Package

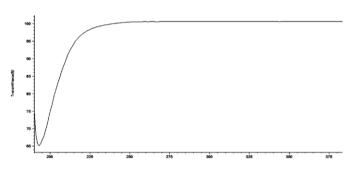
Glass

Glass

at 254 nm	1	ppb max.
at 365 nm	1	ppb max.

Total isomers: n-Hexane, Methylpentane, Methylcyclopentane and Dimethylbutane.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size	Cat No.	Package
LC1090-G500ML	Glass	500 ML	LC1090-G2.5L	Glass
LC1090-G1L	Glass	1 Litre	LC1090-G4L	Glass

Hexanes, HPLC Plus				LC1226
Specifications				
Assay (by GC. : Total C_6 Isomers)	99.5%	min.	Silicone oil	Free
Appearance	Clear and colorless	s liquid	DOP	Free
Identity (IR)	Passes test		Amide	Free
Color (APHA)	10	max.		
Water (by Coulometry)	0.01%	max.		Hexane , Methylpentane , Methylcyclopentane and
Acidity (mEq./g.)	0.0005	max.		methylbutane.
Residue on Evaporation	0.0003%	max.	Product passed th	rough 0.2 micron final filter.
Substances darkened by sulfuric acid	Passes test			
UV Transmission Levels (%T)			100	
240 nm	99%	min.	95	
230 nm	98%	min.	90 -	
220 nm	90%	min.	8 so /	
210 nm	70%	min.	Trensmitts	
200 nm	50%	min.	75	
Fluorescence (as quinine)			70	
at 254 nm	1	ppb max.	95	
at 365 nm	1	ppb max.	200 225	260 275 360 325 360 375

500 ML

1 Litre

<u> </u>		
Cat No.	Package	Size
LC1226-G2.5L	Glass	2.5 Litre
LC1226-G4L	Glass	4 Litre

Cat No.

LC1226-G500ML

LC1226-G1L



Hexane Fraction, HPLC LC1088 Specifications Assay (by GC.) 45.0% min. Fluorescence (as quinine) Clear and colorless liquid at 254 nm **Appearance** ppb max. 1 Identity (IR) at 365 nm Passes test 1 ppb max. Color (APHA) 10 max. Product passed through 0.2 micron final filter. Water (by Coulometry) 0.01% max. Acidity (mEq./g.) 0.0005 max. Residue on Evaporation 0.0003% max. UV Transmission Levels (%T) 250 nm 99% min. 240 nm 98% min. 230 nm 95% min. 220 nm 80% min. 210 nm 60% min. Cat No. Package Cat No. Size **Package** Size LC1088-G500ML Glass 500 ML LC1088-G2.5L Glass 2.5 Litre LC1088-G1L Glass 1 Litre LC1088-G4L Glass 4 Litre

Methanol

CH₃OH FW. 32.04 **Melting Point** CAS-No. 67-56-1 **Boiling Point** Density 1 L 0.790 Kg.



°C

-98 64.5 °C

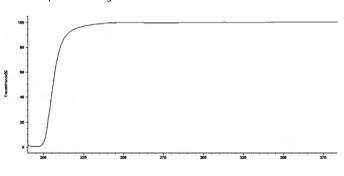
Methanol, HPLC					LC1115
Specifications					
Assay (by GC.)	99.9%	min.	230 nm	80%	min.
Appearance	Clear and colorle	ss liquid	220 nm	70%	min.
Identity (IR)	Passes test		210 nm	60%	min.
Color (APHA)	10	max.	Fluorescence (as quinine)		
Water (by Coulometry)	0.05%	max.	at 254 nm	1	ppb max
Acidity (mEq./g.)	0.0003	max.	at 365 nm	1	ppb max
Alkalinity (mEq./g.)	0.0002	max.			
Residue on Evaporation	0.0003%	max.	Product passed through 0.2	micron final filter.	
Acetaldehyde (GC.)	0.001%	max.			
Acetone (GC.)	0.001%	max.	100 -		
Carbonyl Compounds	0.001%	max.	80 -		
Formaldehyde (GC.)	0.001%	max.			
Solubility in water	Passes test		80 ee -		
Substances reducing perman	ganate Passes test		10 au		
Substances darkened by sulfu	ric acid Passes test		20 -		
UV Transmission Levels (%T)					
250 nm	99%	min.	200 225 250	275 300 3	25 350 375
240 nm	98%	min.			
Cat No.	Package	Size	Cat No.	Package	Size
LC1115-G500ML	Glass	500 ML	LC1115-G2.5L	Glass	2.5 Litre
LC1115-G1L	Glass	1 Litre	LC1115-G4L	Glass	4 Litre

Methanol, HPLC Plus		
Specifications		
Assay (by GC.)	99.9%	min.
Appearance	Clear and colorless liqu	id
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.05%	max.
Acidity (mEq./g.)	0.0003	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0003%	max.
Acetaldehyde (GC.)	0.001%	max.
Acetone (GC.)	0.001%	max.
Carbonyl Compounds	0.001%	max.
Formaldehyde (GC.)	0.001%	max.
Solubility in water	passes test	
Substances reducing permanganate	passes test	
Substances darkened by sulfuric acid	passes test	
UV Transmission Levels (%T)		
250 nm	99%	min.
240 nm	98%	min.
230 nm	80%	min.

220 nm	70%	min
210 nm	60%	min.
Fluorescence (as quir	nine)	
at 254 nm	1	ppb max.
at 365 nm	1	ppb max.
Silicone oil	Free	
DOP	Free	
Amide	Free	

LC1224

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1224-G500ML	Glass	500 ML
LC1224-G1L	Glass	1 Litre

Cat No.	Package	Size
LC1224-G2.5L	Glass	2.5 Litre
LC1224-G4L	Glass	4 Litre





Methyl-t-Butyl Ether

 $CH_3OC(CH_3)_3$ FW. 88.15 Melting Point -108.6 °C CAS-No. Boiling Point 55.3 °C



Density 1 L 0.740 Kg.

Methyl-t-Butyl Ether, H	PLC				LC1125
Specifications					
Assay (by GC.)	99.8%	min.	240 nm	60%	min.
Appearance	Clear and colorless liquid		Fluorescence (as quinine)		
Identity (IR)	Passes test		at 365 nm	1	ppb max
Color (APHA)	10	max.			
Water (by Coulometry)	0.02%	max.	Product passed through 0.2 r	micron final filter.	
Acidity (mEq./g.)	0.0002	max.			
Alkalinity (mEq./g.)	0.0002	max.	100 -		
Residue on Evaporation	0.0002%	max.	to-		
Peroxide (as H ₂ O ₂)	1	ppm max.	8 60-		
UV Transmission Levels (%T)			6		
280 nm	99%	min.	10 - 40 -		
270 nm	98%	min.	20 -		
260 nm	90%	min.			
255 nm	85%	min.	200 225 250	275 300 325	350 375
Cat No.	Package	Size	Cat No.	Package	Size
LC1125-G500ML	Glass	500 ML	LC1125-G2.5L	Glass	2.5 Litre
LC1125-G1L	Glass	1 Litre	LC1125-G4L	Glass	4 Litre

Methyl Ethyl Ketone

 $C_2H_5COCH_3$ FW. 72.11 Melting Point -86 °C CAS-No. 78-93-3 Boiling Point 79.6 °C Density 1 L 0.805 Kg.



Methyl Ethyl Ketone, H	HPLC				LC1122
Specifications					
Assay (by GC.)	99.8%	min.	Fluorescence (as quinine	<u>e)</u>	
Appearance	Clear liquid		at 365 nm	1	ppb max.
Identity (IR)	Passes test		Product passed through	0.2 micron final filter	
Color (APHA)	10	max.	r roduct passed timough	0.2 meron marmet.	
Water (by Coulometry)	0.05%	max.	100 -		
Acidity (mEq./g.)	0.0005	max.	80 -		
Residue on Evaporation	0.0003%	max.			
UV Transmission Levels (%T))		So so -		
360 nm	99%	min.	40 -		
350 nm	98%	min.	20 -		
340 nm	85%	min.			
335 nm	50%	min.	200 225	250 275 300	325 350 376
Cat No.	Package	Size	Cat No.	Package	Size
LC1122-G500ML	Glass	500 ML	LC1122-G2.5L	Glass	2.5 Litre
LC1122-G1L	Glass	1 Litre	LC1122-G4L	Glass	4 Litre

n-Methyl-2-Pyrrolidone

Density 1 L

C₅H₉NO FW. 99.13 Melting Point -24 $^{\circ}$ C CAS-No. 872-50-4 Boiling Point 202 $^{\circ}$ C



n-Methyl-2-Pyrrolidone, HPLC

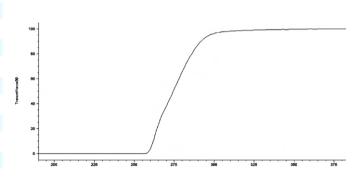
LC1123

Specifications		
Assay (by GC.)	99.5%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.05%	max.
Acidity (mEq./g.)	0.0005	max.
Residue on Evaporation	0.0005%	max.
UV Transmission Levels (%T)		
350 nm	99%	min.
330 nm	95%	min.
310 nm	80%	min.
290 nm	70%	min.
280 nm	50%	min.

1.030 Kg.

Fluorescence (as quinine)		
at 365 nm	1	ppb max.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1123-G500ML	Glass	500 ML
LC1123-G1L	Glass	1 Litre

Cat No.	Package	Size
LC1123-G2.5L	Glass	2.5 Litre
LC1123-G4L	Glass	4 Litre

n-Pentane

CH₃(CH₂)₃CH₃ FW. 72.15 Melting Point -129.7 $^{\circ}$ C CAS-No. 109-66-0 Boiling Point 36.1 $^{\circ}$ C Density 1 L 0.630 Kg.



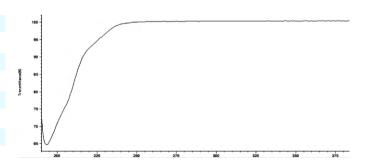
n-Pentane 95%, HPLC	LC1145

min.

Specifications		
Assay (by GC.)	95.0%	min.
Appearance	Clear and colorless liq	uid
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.01%	max.
Acidity (mEq./g.)	0.0005	max.
Residue on Evaporation	0.0003%	max.
Substances darkened by sulfuric acid	Passes test	
UV Transmission Levels (%T)		
250 nm	99%	min.
240 nm	98%	min.
230 nm	95%	min.
220 nm	85%	min

Fluorescence (as quinine)		
at 254 nm	1	ppb max.
at 365 nm	1	ppb max.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1145-G500ML	Glass	500 ML
LC1145-G1L	Glass	1 Litre

60%

210 nm

Cat No.	Package	Size
LC1145-G2.5L	Glass	2.5 Litre
LC1145-G4L	Glass	4 Litre



n-Pentane 99%, HPLC					LC1146
Specifications					
Assay (by GC.)	99.0%	min.	Fluorescence (as quinine)		
Appearance	Clear and colorle	ess liquid	at 254 nm	1	ppb max.
Identity (IR)	Passes test		at 365 nm	1	ppb max.
Color (APHA)	10	max.			
Water (by Coulometry)	0.01%	max.	Product passed through 0.2	micron final filter.	
Acidity (mEq./g.)	0.0005	max.			
Residue on Evaporation	0.0003%	max.	100		
Substances darkened by sulf	furic acid Passes test		96-		
JV Transmission Levels (%T)			2 90-		
250 nm	99%	min.	as a second		
240 nm	98%	min.	·		
230 nm	95%	min.	80 -		
220 nm	85%	min.	76		
210 nm	60%	min.	200 225 250	275 300	325 350 375
Cat No.	Package	Size	Cat No.	Package	Size
_C1146-G500ML	Glass	500 ML	LC1146-G2.5L	Glass	2.5 Litre
LC1146-G1L	Glass	1 Litre	LC1146-G4L	Glass	4 Litre

Petroleum Ether 40 - 60

CAS-No. 64742-49-0 Boiling Point 40-60 °C

Density 1 L 0.645-0.665 Kg.



Petroleum Ether 40 - 6	50, HPLC				LC1147
Specifications					
Appearance	Clear and colorless liquid		210 nm	60%	min.
Identity (IR)	Passes test				
Color (APHA)	10	max.	Product passed through	0.2 micron final filter.	
Water (by Coulometry)	0.01%	max.			
Acidity (mEq./g.)	0.0005	max.	100		
Residue on Evaporation	0.0005%	max.	90 -		
Sulfur Compounds (S)	0.002%	max.	9 80-		
UV Transmission Levels (%T)			Good 1		
250 nm	99%	min.	• ~] /		
240 nm	98%	min.	· /		
230 nm	90%	min.	50		
220 nm	80%	min.	200 225	250 275 300 325	350 375
Cat No.	Package	Size	Cat No.	Package	Size
LC1147-G500ML	Glass	500 ML	LC1147-G2.5L	Glass	2.5 Litro
LC1147-G1L	Glass	1 Litre	LC1147-G4L	Glass	4 Litre

LC1305 Petroleum Ether 40 - 60, HPLC Plus Specifications Silicone oil Appearance Clear and colorless liquid Free DOP Identity (IR) Passes test Free Color (APHA) 10 max. Amide Free Water (by Coulometry) 0.01% max. Acidity (mEq./g.) 0.0005 Product passed through 0.2 micron final filter. max. Residue on Evaporation 0.0005% max. 0.002% Sulfur Compounds (S) max. UV Transmission Levels (%T) 250 nm 99% min. 240 nm 98% min. 230 nm 90% min. 220 nm 80% min. 210 nm 60% min. Cat No. Package Cat No. Package LC1305-G500ML Glass 500 ML LC1305-G2.5L Glass 2.5 Litre Glass LC1305-G4L Glass LC1305-G1L 1 Litre 4 Litre

Petroleum Ether 60 - 80

CAS-No. 64742-49-0 Boiling Point 60-80 °C

Density 1 L 0.680 Kg.



Petroleum Ether 60 - 80	O, HPLC			LC1148
Specifications				
Appearance	Clear and colorless liquid		210 nm 60%	min.
Identity (IR)	Passes test			
Color (APHA)	10	max.	Product passed through 0.2 micron final filter.	
Water (by Coulometry)	0.02%	max.		
Acidity (mEq./g.)	0.0005	max.	100	
Residue on Evaporation	0.0005%	max.	90	
Sulfur Compounds (S)	0.002%	max.	80	
UV Transmission Levels (%T)			600 / P	
250 nm	99%	min.	§ /	
240 nm	98%	min.	· ·	
230 nm	90%	min.	50	
220 nm	80%	min.	200 225 200 275 300 326	350 375
Cat No.	Package	Size	Cat No. Package	Size
LC1148-G500ML	Glass	500 ML	LC1148-G2.5L Glass	2.5 Litre
LC1148-G1L	Glass	1 Litre	LC1148-G4L Glass	4 Litre



Propan-1-ol

Density 1 L

CH₃CH₂CH₂OH FW. 60.10 Melting Point -127 °C CAS-No. 71-23-8 Boiling Point 97 °C

0.804 Kg.



Propan-1-ol, HPLC					LC1161
Specifications					
Assay (by GC.)	99.8%	min.	230 nm	70%	min.
Appearance	Clear and colorless liqui	id	Fluorescence (as quinine)		
Identity (IR)	Passes test		at 365 nm	1	ppb max.
Color (APHA)	10	max.			
Water (by Coulometry)	0.02%	max.	Product passed through 0	2 micron final filter.	
Acidity (mEq./g.)	0.0002	max.	100 -		
Alkalinity (mEq./g.)	0.0002	max.			
Residue on Evaporation	0.0002%	max.	80		
UV Transmission Levels (%T)			8 00 -		
300 nm	99%	min.	40		
270 nm	98%	min.	20 -		
250 nm	90%	min.			
240 nm	80%	min.	200 225 250	275 300 325	360 375
Cat No.	Package	Size	Cat No.	Package	Size
LC1161-G500ML	Glass	500 ML	LC1161-G2.5L	Glass	2.5 Litre
LC1161-G1L	Glass	1 Litre	LC1161-G4L	Glass	4 Litre

Propan-2-ol

Density 1 L

Cat No.

LC1162-G500ML

LC1162-G1L

(CH₃)₂CHOH	FW. 60.10	Melting Point	- 89.5 ℃
CAS-No.	67-63-0	Boiling Point	82.4 °C

0.786 Kg.

Package

Glass

Glass



Propan-2-ol, HPLC								LC116	62
Specifications									
Assay (by GC.)	99.9%	min.		210 nm		40%		min.	
Appearance	Clear and colorless liquid		Fluore	scence (as quinine))				
Identity (IR)	Passes test			at 254 nm		1		ppb n	nax.
Color (APHA)	10	max.		at 365 nm		1		ppb n	nax.
Water (by Coulometry)	0.03%	max.							
Acidity (mEq./g.)	0.0005	max.	Product	passed through 0.	2 micron fir	nal filter.			
Alkalinity (mEq./g.)	0.0002	max.	1						
Residue on Evaporation	0.0003%	max.	100 -						
Carbonyl Compounds (as propionaldehyde or acetone)	0.002%	max.	80 -						
Solubility in water	Passes test		8 co -						
UV Transmission Levels (%T)			40 -						
250 nm	99%	min.							
240 nm	98%	min.	20 -						
230 nm	80%	min.	•	<i>/</i>	0 275		325		
220 nm	60%	min.	24	oe 225 25	g 275	300	325	350	375

Cat No.

LC1162-G2.5L

LC1162-G4L

500 ML

1 Litre

Package

Glass

Glass

Size

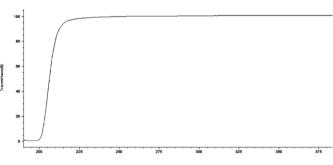
2.5 Litre

4 Litre

Propan-2-ol, HPLC Plus			
Specifications			
Assay (by GC.)	99.9%	min.	Fluc
Appearance	Clear and colorless liquid		
Identity (IR)	Passes test		
Color (APHA)	10	max.	Silic
Water (by Coulometry)	0.03%	max.	DOF
Acidity (mEq./g.)	0.0005	max.	Ami
Alkalinity (mEq./g.)	0.0002	max.	
Residue on Evaporation	0.0003%	max.	Prod
Carbonyl Compounds (as propionaldehyde or acetone)	0.002%	max.	100 -
Solubility in water	Passes test		80 -
UV Transmission Levels (%T)			
250 nm	99%	min.	Transmittance(N
240 nm	98%	min.	40 -
230 nm	80%	min.	20 -
220 nm	60%	min.	
210 nm	40%	min.	•1
Cat No.	Package	Size	Cat N

Fluorescence (as quinine)		
at 254 nm	1	ppb max.
at 365 nm	1	ppb max.
Silicone oil	Free	
DOP	Free	
Amide	Free	

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1163-G2.5L	Glass	2.5 Litre
LC1163-G4L	Glass	4 Litre

Tetrahydrofuran

LC1163-G500ML

LC1163-G1L

Density 1 L

 C_4H_8O FW. 72.11 CAS-No. 109-99-9

Glass

Glass

0.890 Kg.

Melting Point -108.5 °C

Boiling Point 65-66 °C





LC1163

Tetrahydrofuran, HPLC LC1200 Specifications

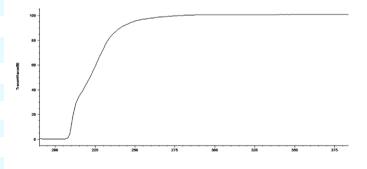
500 ML

1 Litre

Specifications		
Assay (by GC.)	99.9%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.02%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.0001%	max.
Peroxide (as H₂O₂) (at the time of manufacturing)	0.005%	max.
UV Transmission Levels (%T)		
280 nm	99%	min.
250 nm	80%	min.
240 nm	70%	min.
230 nm	35%	min.
218 nm	30%	min.

Fluorescence (as quinine)		
at 254 nm	1	ppb max.
at 365 nm	1	ppb max.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1200-G500ML	Glass	500 ML
LC1200-G1L	Glass	1 Litre

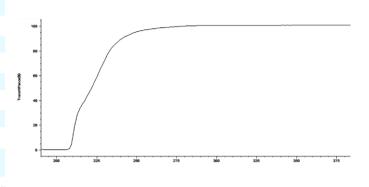
Cat No.	Package	Size
LC1200-G2.5L	Glass	2.5 Litre
LC1200-G4L	Glass	4 Litre



Tetrahydrofuran, HPLC LC1203B

Specifications

Assay (by GC.)	99.9%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.02%	max.
Acidity (mEq./g.)	0.0005	max.
Alkalinity (mEq./g.)	0.0002	max.
Residue on Evaporation	0.001%	max.
Peroxide (as H ₂ O ₂) (at the time of manufacturing)	0.005%	max.



Stabilized with about 250 ppm BHT.

Product passed through 0.2 micron final filter.

Cat No.	Package	Size
LC1203B-G500ML	Glass	500 ML
LC1203B-G1L	Glass	1 Litre

Cat No.	Package	Size
LC1203B-G2.5L	Glass	2.5 Litre
LC1203B-G4L	Glass	4 Litre

Toluene

C ₆ H ₅ CH ₃	FW. 92.14
CAS-No.	108-88-3
Density 1 L	0.870 Kg.

Melting Point -95 $^{\circ}$ C Boiling Point 110.6 $^{\circ}$ C



Toluene, HPLC LC1347

min.

min.

min.

Specifications

350 nm

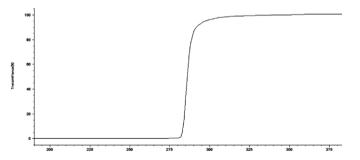
330 nm

310 nm

Assay (by GC.)	99.8%	min.
Appearance	Clear and colorless liq	uid
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.01%	max.
Acidity (mEq./g.)	0.0002	max.
Alkalinity (mEq./g.)	0.0004	max.
Residue on Evaporation	0.0005%	max.
Sulfur Compounds (S)	0.003%	max.
Substances darkened by sulfuric acid	Passes test	
UV Transmission Levels (%T)		

300 nm	80%	min.
290 nm	50%	min.
Fluorescence (as quinine)		
at 365 nm	2	ppb max.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1347-G500ML	Glass	500 ML
LC1347-G1L	Glass	1 Litre

99%

98%

90%

Cat No.	Package	Size
LC1347-G2.5L	Glass	2.5 Litre
LC1347-G4L	Glass	4 Litre

Trichloroethylene

Cl₂CCHCl FW. 131.79 Melting Point - 86 CAS-No. 79-01-6 87 °C **Boiling Point**



LC1205

Density 1 L 1.460 Kg.

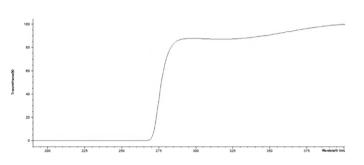
Trichloroethylene, HPLC		
Specifications		
Assay (by GC.)	99.8%	min.
Appearance	Clear and colorless liquid	
Identity (IR)	Passes test	
Color (APHA)	10	max.
Water (by Coulometry)	0.01%	max.
Acidity (mEq./g.)	0.0005	max.
Residue on Evaporation	0.0005%	max.
UV Transmission Levels (%T)		
400 nm	98%	min.
350 nm	85%	min.
320 nm	80%	min.
300 nm	70%	min.
280 nm	50%	min.

incations		
y (by GC.)	99.8%	min.
earance	Clear and colorless liquid	
tity (IR)	Passes test	
r (APHA)	10	max.
er (by Coulometry)	0.01%	max.
ity (mEq./g.)	0.0005	max.
due on Evaporation	0.0005%	max.
ransmission Levels (%T)		
400 nm	98%	min.
350 nm	85%	min.
320 nm	80%	min.
300 nm	70%	min.

Cat No.	Package	Size
LC1205-G500ML	Glass	500 ML
LC1205-G1L	Glass	1 Litre

Fluoresc	ence (as quinine)		
	at 365 nm	1	ppb max.

Product passed through 0.2 micron final filter.



Cat No.	Package	Size
LC1205-G2.5L	Glass	2.5 Litre
LC1205-G4L	Glass	4 Litre





2,2,4-Trimethylpentane

 $(CH_3)_2CHCH_2C(CH_3)_3$ FW. 114.23 Melting Point -107 $^{\circ}$ C CAS-No. 540-84-1 Boiling Point 99 $^{\circ}$ C

Density 1 L 0.690 Kg.

2,2,4-Trimethylpentane	, HPLC			LC1206
Specifications				
Assay (by GC.)	99.5%	min.	Fluorescence (as quinine)	
Appearance	Clear and colorless liquid		at 365 nm 1	ppb max.
Identity (IR)	Passes test			
Color (APHA)	10	max.	Product passed through 0.2 micron final filter.	
Water (by Coulometry)	0.01%	max.		
Acidity (mEq./g.)	0.0002	max.		
Alkalinity (mEq./g.)	0.0002	max.	100-	
Residue on Evaporation	0.0002%	max.	90	
Sulfur Compounds (S)	0.005%	max.	2 80-	
UV Transmission Levels (%T)			20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
250 nm	99%	min.	į /	
240 nm	98%	min.	60 -	
230 nm	95%	min.	50	
220 nm	80%	min.	200 225 250 275 300 325	360 375
210 nm	50%	min.		

Cat No.	Package	Size	Cat No.	Package	Size
LC1206-G500ML	Glass	500 ML	LC1206-G2.5L	Glass	2.5 Litre
LC1206-G1L	Glass	1 Litre	LC1206-G4L	Glass	4 Litre

Water

Water, HPLC

H ₂ O	FW. 18.02	Melting Point	0	°C
CAS-No.	7732-18-5	Boiling Point	100	°C

Density 1 L 1.000 Kg.

Specifications		
Appearance	Clear and colorless liquid	
Residue on Evaporation	0.0005%	max.
Conductivity (at the time of manufacturing), μ S/cm	1	max.
Gradient Specification 254 nm		
Largest peak	1	mAU max.
Fluorescence (as quinine)		
at 254 nm	1	ppb max.
at 365 nm	0.5	ppb max.

Determined by a 40 ml sample enrichment of C18 column followed by a gradient from 100% water to 100% acetonitrile at a rate of 5% per minute and a flow rate of 1 ml/ min.

Product passed through 0.2 micron final filter.

Cat No.	Package	Size
LC1210-G500ML	Glass	500 ML
LC1210-G1L	Glass	1 Litre

-2-										
4-						~				
) nm	10	15	20	25	30	35	40	45	, ,
AU 5										
2.5										
								/		
0				h						
				h			,			

LC1210

Cat No.	Package	Size
LC1210-G2.5L	Glass	2.5 Litre
LC1210-G4L	Glass	4 Litre





HAZARDOUS TRANSPORTATION AND HANDLING CONCERNS

Hazardous materials are classified by the tariff system. It is important for international shipment of hazardous materials. It is shown in IMDG code (International Maritime Organization of the UN). Transportation of dangerous Substances as following according to Recommendation on the Transport of Dangerous Goods, Model Regulation, Sixteenth revised edition, United Nations.

No.	CLASS	Division	Pictogram
		1.1 Substance and article which have a mass explosion hazard	- I
		1.2 Substances and articles which have a projection hazard but not a mass explosion hazard	
1 Explosive substances or articles	Explosive substances or articles	1.3 Substance and article which have a fire hazard and either a minor 6 post hazard or a minor projection hazard or both, but not a mass explosion hazard	
		1.4 Substance and article which present no significant hazard	1.4
	1.5 Very insensitive substances which have a mass explosion hazard	1.5	
		1.6 Extremely insensitive articles which do not have a mass explosion hazard	1.6
		2.1) Flammable gases	
2	Gases	2.2) Non-flammable,non-toxic gases	
		2.3) Toxic gases	
3	Flammable liquids		

No.	CLASS	Division	Pictogram
4	Flammable solids; substances liable to spontaneous combustion;	4.1) Flammable solid, self-reactive substances, solid desensitized explosives and polymerizing substances	
	substances which, on contact with water, emit flammable gases	4.2) Substances liable to spontaneous combustion	
		4.3) Substances which,in contact with water,emit flammable gases	
5	Oxidizing substances and organic	5.1) Oxidizing substances	5.5
	peroxides	5.2) Organic peroxides	5.2 5.2
6	Toxic an infectious substances	6.1) Toxic substances	
		6.2) Infectious substances	•
7	Radioactive material		PISSEE
8	Corrosive substances		
9	Miscellaneous dangerous substances and articles,including environmentally hazardous substances		





The Physical Hazard

GHS signs	Description	Product Samples
Flammable	 Self-Reactive Substances Pyrophorics (Liquids, Solids) Self-Heating Substances Organic Peroxides Desensitized Explosives Flammables (Gases, Aerosols, Liquids and Solids) Substances which no contact with Water Emit Flammable Gases 	 Acetic Acid Glacial Acetone Hexanes Acetonitrile Butan-1-ol Methyl-t-Butyl Ether n-Butyl Acetate Methyl Ethyl Ketone 1-Chlorobutane n-Pentane Cyclohexane Petroleum Ether 40-60 1,2-Dichloroethane Diethyl Ether Propan-1-ol Dimethylformamide Propan-2-ol 1,4-Dioxan Tetrahyfuran Ethanol Toluene 2,2,4-Trimethylpentane n-Heptane
Oxidizing	Oxidizing (Gases, Liquids, Solids)	-
Corrosive	Substances Corrosive to Metal	Acetic Acid Glacial
Explosive	ExplosivesSelf-Reactive SubstancesOrganic Peroxides	-
Compressed gas	Gases Under Pressure	



The Health Hazard

GHS signs	Description	Product Samples
Human Health	 Germ Cell Mutagenicity Carcinogenicity Toxic to Reproduction Aspiration Toxicity Specific Target Organ/Systemic Toxicity - Single Exposure Specific Target Organ/Systemic Toxicity - Repeated Exposure 	Chloroform Cyclohexane n-Methyl-2-Pyrrollidone n-Pentane n-Pentane pichloromethane petroleum Ether 40-60 pimethylacetamide petroleum Ether 60-80 Tetrahydrofuran 1,4-Dioxan n-Heptane n-Heptane n-Hexane Hexanes
Hazardous	 Acute Toxicity (Low) Eye Irritation Respiratory or Skin Sensitization 	 Acetone Acetonitrile Methyl Ethyl Ketone Butan-1-ol n-Methyl-2-Pyrrolidone n-Butyl Acetate Methyl-t-Butyl Ether Cyclohexane Propan-1-ol Dichloromethane Propan-2-ol Diethyl Ether n-Pentane Dimethylacetamide Petroleum Ether 40-60 Dimethylformamide Petroleum Ether 60-80 1,4-Dioxan Tetrahydrofuran Ethanol Toluene Ethyl Acetate n-Heptane 2,2,4-Trimethylpentane n-Hexane
Corrosive	 Skin Corrosive/Irritation Serious Eye Damage/Eye Irritation 	Acetic Acid Glacial Propan-1-ol Butan-1-ol
Toxic	Acute Toxicity (High)	Chlorofrom

The Environmental Hazard

Product Samples
• Cyclohexane • n-Heptane • n-Hexane • Hexanes • n-Pentane • Petroleum Ether 40-60 • Petroleum Ether 60-80 • 2,2,4-Trimethylpentane
ne



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