

Reagents / Sorbents

Code	Product	Unit
SC-4592-A005	ICN-Alumina A - Super I (acid) (50 - 200 µm)	500 g
SC-4568-A005	ICN-Alumina B - Super I (basic) (50 - 200 µm)	500 g
SC-4569-A005	ICN-Alumina B - Super I (50 - 200 µm) for dioxin analysis	500 g
SC-4181-B005	FLORISIL® (Standard), 60 - 100 mesh (150 - 250 µm)	500 g
SC-4181-S010	FLORISIL® (Standard), 60 - 100 mesh (150 - 250 µm)	10 kg
SC-4182-B005	FLORISIL® PR for residue analysis, 60 - 100 mesh (150 - 250 µm)	500 g
SC-4182-S010	FLORISIL® PR for residue analysis, 60 - 100 mesh (150 - 250 µm)	10 kg
SC-4182-S020	FLORISIL® PR for residue analysis 60 - 100 mesh (150 - 250 µm)	20 kg
SC-9700-B005	FLORISIL® (Standard), 60 - 100 mesh (suitable for ISO 9377-2/H53)	500 g
SC-9982-B010	Silica gel 60 (63 - 200 µm)	1 kg
SC-9950-B005	Sodium sulfate anhydrous, for analysis (ACS), powder	500 g
SC-9950-B025	Sodium sulfate anhydrous, for analysis (ACS), powder	2.5 kg
SC-8024-B005	Sodium sulfate anhydrous, in granular form	500 g
SC-8024-B025	Sodium sulfate anhydrous, for analysis (ACS), in granular form	2.5 kg
SC-8024-S025	Sodium sulfate anhydrous, for analysis (ACS), in granular form	25 kg
SC-1024-B005	Sodium sulfate Picograde® anhydrous, for residue analysis (ACS), in granular form	500 g
SC-1024-B005	Sodium sulfate Picograde® anhydrous, for residue analysis (ACS), in granular form	2.5 kg
SO-9685-B001	Ammonium acetate ULC-MS Optigrade® CAS number 631-61-8 Assay (GC, on anhydrous basis) 99-100 % Water (KF) 0-0.1 % Filter test (1M in water) Passes test pH (1M in water) 6.0-7.5 Transmission at 260 nm (1M in water) 96-100 % at 280 nm (1M in water) 98-100 % Chloride (Cl) 0-0.0005% Sulfate (SO ₄) 0-0.001% Al 0-1 ppm Ca 0-5 ppm Fe 0-1 ppm K 0-5 ppm Mg 0-1 ppm Na 0-5 ppm	100 g
SO-9679-B001	Formic acid ULC-MS Optigrade® UN 1779 CAS number 64-18-6 Assay (T, on anhydrous basis) 99-100 % Water (KF) 0-1 % Residue after evaporation 0-0.001 %w/w Color (APHA) 0-10 Gradient specification HPLC gradient at 254 nm - H. Peak 0-0.005 AU HPLC gradient at 254 nm - Drift 0-0.02 AU Transmission at 260 nm 15-100 % at 270 nm 83-100 % at 280 nm 90-100 % at 300 nm 97-100 % at 320 nm 98-100 %	100 mL

Code	Product	Unit
SO-9668-B001	Trifluoroacetic acid ULC- MS Optigrade®	100 mL
	UN 2899 CAS number 76-05-1 Assay (T).....99.95-100 % Water (KF).....0-0.02 % Residue after evaporation.....0-0.001 %w/w Color (APHA).....0-10 Gradient specification HPLC gradient at 254 nm - H. Peak0-0.002 AU HPLC gradient at 254 nm - Drift0-0.010 AU Fluorescence at 254 nm (25%, as quinine).....0-1 ppb Fluorescence at 365 nm (25%, as quinine).....0-1 ppb Transmission at 260 nm10-100 % at 270 nm79-100 % at 280 nm93-100 % at 300 nm95-100 % at 320 nm96-100 %	

High purity solvents and acids

Code	Product	Unit
HPA-0050-B010	Acetic acid for trace analysis min 99.5 % (glass bottle)	1 L
	UN 2789 Assay.....> 99.5 % Colour (APHA).....< 10 Residue.....< 2 ppm Chloride.....< 0.4 ppm Phosphate.....< 0.5 ppm Sulfate.....< 0.4 ppm Ag.....< 0.1 ppb Al.....< 0.1 ppb As.....< 0.1 ppb Ba.....< 0.1 ppb Be.....< 0.1 ppb Bi.....< 0.1 ppb Ca.....< 0.5 ppb Cd.....< 0.1 ppb Co.....< 0.1 ppb Cr.....< 0.1 ppb Cu.....< 0.1 ppb Fe.....< 0.5 ppb K.....< 0.1 ppb Li.....< 0.1 ppb Mg.....< 0.1 ppb Mn.....< 0.1 ppb Mo.....< 0.1 ppb Na.....< 0.5 ppb Ni.....< 0.1 ppb Pb.....< 0.1 ppb Se.....< 0.5 ppb Sn.....< 0.1 ppb Sr.....< 0.1 ppb Th.....< 0.1 ppb Ti.....< 0.1 ppb V.....< 0.1 ppb Zn.....< 0.5 ppb Hydrochloric acid stored in glass bottles will see a rise in: Al, B, Ca, K, Mg, Mn, Na and Si.	

Acetone

SO-2435-B010	Acetone HPLC Optigrade®	1 L
SO-2435-B025	Acetone HPLC Optigrade®	2.5 L
SO-2435-B040	Acetone HPLC Optigrade®	4 L
	UN 1090 CAS number 67-64-1 C_3H_6O Assay99.5% min. Water0.5% max. Non-volatile matter.....0.0005% max. Filtered through 0.2 μ m 1 L = 0.792 kg (at 20°C) Optical absorbance wavelength 1.0 max.330 nm 0.1340 nm 0.05350 nm 0.01370 nm	
SO-1142-B010	Acetone Picograde® for residue analysis	1 L
SO-1142-B025	Acetone Picograde® for residue analysis	2.5 L
SO-1142-B040	Acetone Picograde® for residue analysis	4 L
SO-1142-C011	Acetone Picograde® for residue analysis (Cyclotainer®)	10 L
SO-1142-C032	Acetone Picograde® for residue analysis (Cyclotainer®)	30 L
	UN 1090 CAS number 67-64-1 C_3H_6O Assay99.0% min. Water0.5% max. Non-volatile matter.....0.0005% max. 1 L = 0.792 kg (at 20°C) Specification GC/ECD In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 μ g/mL heptachlor-epoxide. GC/FID In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C_8) and n-tetracontane (C_{40}), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C_{11}).	

Acetonitrile

SO-9128-B010	Acetonitrile HPLC Optigrade® Gradient Grade	1 L
SO-9128-B025	Acetonitrile HPLC Optigrade® Gradient Grade	2.5 L
SO-9128-B040	Acetonitrile HPLC Optigrade® Gradient Grade	4 L
SO-9128-C012	Acetonitrile HPLC Optigrade® Gradient Grade (Cyclotainer®)	10 L
SO-9128-C032	Acetonitrile HPLC Optigrade® Gradient Grade (Cyclotainer®)	30 L
SO-9128-C200	Acetonitrile HPLC Optigrade® Gradient Grade	200 L

UN 1648

CAS number 75-05-8

C₂H₃N

Assay 99.8% min.

Water 0.02% max.

Non-volatile matter 0.0003% max.

Gradient specification (210 nm) 3.0 mAU max.

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

Filtered through 0.2 µm

1 L = 0.783 kg (at 20°C)

Optical absorbance	Wavelength
0.7 max	190 nm
0.21	193 nm
0.12	195 nm
0.05	210 nm
0.02	220 nm
0.009	230 nm
0.005	235 nm

This solvent in glass bottles fulfills the specifications according to chapter 4 of the European Pharmacopoeia.

SO-9154-B010	Acetonitrile HPLC Optigrade® Super Gradient Grade	1 L
SO-9154-B025	Acetonitrile HPLC Optigrade® Super Gradient Grade	2.5 L
SO-9154-C012	Acetonitrile HPLC Optigrade® Super Gradient Grade (Cyclotainer®)	10 L

UN 1648

CAS number 75-05-8

C₂H₃N

Assay 99.8% min.

Water 0.02% max.

Non-volatile matter 0.0003% max.

Gradient specification (210 nm) 3.0 mAE max.

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

Filtered through 0.2 µm

1 L = 0.783 kg (at 20°C)

Optical absorbance	Wavelength
0.4 max	190 nm
0.3	191 nm
0.18	193 nm
0.08	195 nm
0.02	200 nm
0.009	215 nm
0.005	230 nm

This solvent in glass bottles fulfills the specifications according to chapter 4 of the European Pharmacopoeia.

SO-2856-B010	Acetonitrile HPLC Optigrade®	1 L
SO-2856-B025	Acetonitrile HPLC Optigrade®	2.5 L
SO-2856-B040	Acetonitrile HPLC Optigrade®	4 L
SO-2856-C012	Acetonitrile HPLC Optigrade® (Cyclotainer®)	10 L
SO-2856-C032	Acetonitrile HPLC Optigrade® (Cyclotainer®)	30 L

UN 1648

CAS number 75-05-8

C₂H₃N

Assay 99.8% min.

Water 0.02% max.

Non-volatile matter 0.0003% max.

Filtered through 0.2 µm

1 L = 0.783 kg (at 20°C)

Optical absorbance	Wavelength
1.0 max	190 nm
0.1	200 nm
0.05	210 nm
0.02	220 nm
0.01	230 nm
0.005	235 nm

Code	Product	Unit
SO-9184-B010	Acetonitrile HPLC Optigrade® (for analysis of PAHs and pesticides)	1 L
SO-9184-B025	Acetonitrile HPLC Optigrade® (for analysis of PAHs and pesticides)	2.5 L
	UN 1648 CAS number 75-05-8 C ₂ H ₃ N Assay 99.8% min Water 0.02% max. Non-volatile matter 0.0003% max. Filtered through 0.2 µm 1 L = 0.783 kg (at 20°C) Optical absorbance Wavelength 0.097 max 195 nm 0.018 200 nm 0.009 215 nm 0.004 230 nm	
SO-9340-B010	Acetonitrile for LC-MS Optigrade®	1 L
SO-9340-B025	Acetonitrile for LC-MS Optigrade®	2.5 L
	UN 1648 CAS number 75-05-8 C ₂ H ₃ N Assay 99.8% min Water 0.02% max. Non-volatile matter 0.0003% max. Filtered through 0.2 µm 1 L = 0.783 kg (at 20°C) Ca 0.1 ppm max. K 0.1 ppm max. Mg 0.1 ppm max. Na 0.1 ppm max. Transmission at 195 nm 78 % min. at 200 nm 95 % min. at 220 nm 98 % min. at 240 nm 99 % min.	
SO-9640-B010	Acetonitrile ULC-MS Optigrade®	1 L
	UN 1648 CAS number 75-05-8 C ₂ H ₃ N Assay (GC, on anhydrous basis) 99.97-100 % Water (KF) 0-0.01 % Residue after evaporation 0-0.0001 %w/w Acidity (as acetic acid) 0-0.001 % Alkalinity (as ammonia) 0-0.0001 % Color (APHA) 0-5 Gradient specification HPLC gradient at 210 nm - Drift 0-0.006 AU HPLC gradient at 254 nm - Drift 0-0.002 AU HPLC gradient at 210 nm - H. Peak 0-0.001 AU HPLC gradient at 254 nm - H. Peak 0-0.0003 AU Fluorescence at 254 nm (as quinine) 0-0.3 ppb Fluorescence at 365 nm (as quinine) 0-0.3 ppb 1 L = 0.792 kg (at 20°C) Transmission at 191 nm 30-100 % at 195 nm 85-100 % at 200 nm 97-100 % at 215 nm 98-100 % at >230 nm 99-100 % Al 0-20 ppb Ca 0-50 ppb Fe 0-20 ppb K 0-50 ppb Mg 0-20 ppb Na 0-100 ppb Microfiltered through 0.1 µm/bottled under inert gas	

Code	Product	Unit
SO-4680-B025	Acetonitrile 0.1 % formic acid ULC-MS Optigrade® UN 1648 CAS number 75-05-8 C ₂ H ₃ N Assay 0.095-0.105 % Water (KF) 0-0.02 % Purity of ACN (GC) 99.97-100 % Purity of formic acid 99.0-100 % Gradient specification HPLC gradient at 254 nm - H. Peak 0-0.002 AU Fluorescence at 254 nm (as quinine) 0-0.5 ppb Fluorescence at 365 nm (as quinine) 0-0.5 ppb Transmission at 210 nm 5-100 % at 230 nm 15-100 % at 254 nm 90-100 % Al 0-30 ppb Ca 0-100 ppb Fe 0-50 ppb K 0-100 ppb Mg 0-30 ppb Na 0-100 ppb Microfiltered through 0.1 µm/bottled under inert gas	1 L
SO-4686-B025	Acetonitrile 0.1 % acetic acid ULC-MS Optigrade® UN 1648 CAS number 75-05-8 C ₂ H ₃ N Assay 0.095-0.105 % Purity of ACN (GC) 99.97-100 % Purity of acetic acid (GC) 99.9-100 % Gradient specification HPLC gradient at 254 nm - H. Peak 0-0.002 AU HPLC gradient at 254 nm - Drift 0-0.010 AU Fluorescence at 254 nm (as quinine) 0-0.5 ppb Fluorescence at 365 nm (as quinine) 0-0.5 ppb Transmission at 210 nm 20-100 % at 230 nm 50-100 % at 254 nm 98-100 % Al 0-30 ppb Ca 0-100 ppb Fe 0-50 ppb K 0-100 ppb Mg 0-30 ppb Na 0-100 ppb Microfiltered through 0.1 µm/bottled under inert gas	1 L
SO-4692-B025	Acetonitrile 0.1 % trifluoroacetic acid ULC-MS Optigrade® UN 1648 CAS number 75-05-8 C ₂ H ₃ N Assay 0.095-0.105 % Water (KF) 0-0.02 % Purity of ACN (GC) 99.97-100 % Purity of trifluoroacetic acid 99.95-100 % Gradient specification HPLC gradient at 254 nm - H. Peak 0-0.0002 AU Fluorescence at 254 nm (as quinine) 0-0.5 ppb Fluorescence at 365 nm (as quinine) 0-0.5 ppb Transmission at 210 nm 20-100 % at 230 nm 50-100 % at 254 nm 90-100 % Al 0-30 ppb Ca 0-100 ppb Fe 0-50 ppb K 0-100 ppb Mg 0-30 ppb Na 0-100 ppb Microfiltered through 0.1 µm/bottled under inert gas	1 L
SO-9186-B025	Acetonitrile DNA. max. 0.001% water UN 1648 CAS number 75-05-8 C ₂ H ₃ N Assay 99.9% min. Water by Karl Fischer titration 0.001% max. Non-volatile matter 0.0005% max. 1 L = 0.783 kg (at 20°C)	2.5 L

Code	Product	Unit
SO-9180-B025	Acetonitrile DNA, max. 0.003% water	2.5 L
	UN 1648 CAS number 75-05-8 C ₂ H ₃ N Assay 99.9% min. Water by Karl Fischer titration 0.003% max. Non-volatile matter 0.0005% max. 1 L = 0.783 kg (at 20°C)	
SO-1151-B010	Acetonitrile Picograde® for residue analysis	1 L
SO-1151-B025	Acetonitrile Picograde® for residue analysis	2.5 L
SO-1151-B040	Acetonitrile Picograde® for residue analysis	4 L
	UN 1648 CAS number 75-05-8 C ₂ H ₃ N Assay 99.5% min. Water 0.02% max. Non-volatile matter 0.001% max. 1 L = 0.783 kg (at 20°C) Specification GC/ECD In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide. GC/FID In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C ₈) and n-tetracontane (C ₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C ₁₁).	

Ammonia solution

HPA-0070-B010	Ammonia solution for trace analysis (glass bottle)	1 L
	UN 2672 Assay > 21 % Colour (Hazen) < 10 Carbonate < 10 ppm Al < 0.5 ppb As < 0.1 ppb Ba < 0.1 ppb Be < 0.1 ppb Bi < 0.1 ppb Cd < 0.1 ppb Ca < 0.5 ppb Cr < 0.1 ppb Co < 0.1 ppb Cu < 0.5 ppb Fe < 0.5 ppb Pb < 0.1 ppb Li < 0.1 ppb Mg < 0.2 ppb Mn < 0.1 ppb Mo < 0.1 ppb Ni < 0.1 ppb K < 0.2 ppb Chloride < 500 ppb Phosphate < 50 ppb Sulfat/Sulfate < 500 ppb Se < 0.1 ppb Ag < 0.1 ppb Na < 0.5 ppb Sr < 0.1 ppb Th < 0.1 ppb Sn < 0.1 ppb Ti < 0.1 ppb V < 0.1 ppb Zn < 0.2 ppb	

Benzene

SO-1163-B010	Benzene Picograde® for residue analysis	1 L
SO-1163-B025	Benzene Picograde® for residue analysis	2.5 L
	UN 1114 CAS number 71-43-2 C ₆ H ₆ Assay 99.0% min. Water 0.05% max. Non-volatile matter 0.0005% max. 1 L = 0.871 kg (at 20°C) Specification GC/ECD In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide. GC/FID In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C ₈) and n-tetracontane (C ₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C ₁₁).	

Code	Product	Unit												
Benzyl alcohol														
SO-9505-B005	Benzyl alcohol for the analysis of highly volatile halogenated compounds and EOX	500 mL												
	CAS number 100-51-8 C_7H_8O Assay 99.0% min. Water 0.1% max. Non-volatile matter..... 0.05% max. 1 L = 1.05 kg (at 20°C) Specification Highly volatile halogenated hydrocarbons In the GC/ECD chromatogram there are no interfering single signals in the retention time interval between 1,1-dichloroethene and tribromomethane greater than that, given by 5 µg/L parathion-methyl. BTEX for FID In the GC-FID chromatogram the sum of the signals of BTEX-compounds is not greater than the signal, given by 10 µg/L n-Decane. Coulometric determination of EOX gives a halogen content as chloride of less than 0.3 mg/L.													
Carbon disulfide														
SO-9056-B005	Carbon disulfide free from aromatic hydrocarbons (max. 0.5 ppm)	500 mL												
	UN 1131 CAS number 75-15-0 CS_2 Assay 99.8% min. Water 0.03% max. Non-volatile matter..... 0.0005% max. 1 L = 1.261 kg (at 20°C) Specification BTEX for FID In the GC-FID chromatogram the sum of the signals of BTEX-compounds is not greater than the signal, given by 10 µg/L n-Decane.													
Chloroform														
SO-4443-B010	Chloroform HPLC Optigrade® (alcohol-free. stab. with amylene)	1 L												
SO-4443-B025	Chloroform HPLC Optigrade® (alcohol-free. stab. with amylene)	2.5 L												
SO-4443-B040	Chloroform HPLC Optigrade® (alcohol-free. stab. with amylene)	4 L												
	UN 1888 CAS number 67-66-3 $CHCl_3$ Assay 99.9% min. Water 0.03% max. Non-volatile matter..... 0.0002% max. Filtered through 0.2 µm 1 L = 1.475 kg (at 20°C) stabilised with 50 - 200 ppm amylene <table border="0"> <thead> <tr> <th>Optical absorbance</th> <th>Wavelength</th> </tr> </thead> <tbody> <tr> <td>1.0 max</td> <td>245 nm</td> </tr> <tr> <td>0.15</td> <td>255 nm</td> </tr> <tr> <td>0.05</td> <td>260 nm</td> </tr> <tr> <td>0.02</td> <td>270 nm</td> </tr> <tr> <td>0.01</td> <td>290 nm</td> </tr> </tbody> </table>		Optical absorbance	Wavelength	1.0 max	245 nm	0.15	255 nm	0.05	260 nm	0.02	270 nm	0.01	290 nm
Optical absorbance	Wavelength													
1.0 max	245 nm													
0.15	255 nm													
0.05	260 nm													
0.02	270 nm													
0.01	290 nm													
SO-1174-B010	Chloroform Picograde® for residue analysis (stab. with 0.2 - 1.8 % ethanol)	1 L												
SO-1174-B025	Chloroform Picograde® for residue analysis (stab. with 0.2 - 1.8 % ethanol)	2.5 L												
SO-1174-B040	Chloroform Picograde® for residue analysis (stab. with 0.2 - 1.8 % ethanol)	4 L												
	UN 1888 CAS number 67-66-3 $CHCl_3$ Assay 99.8% min. Acid and phosgene (as HCl)..... 0.0005% max. Non-volatile matter..... 0.0005% max. 1 L = 1.475 kg (at 20°C) stabilised with 0.2 - 1.8% Ethanol Specification GC/ECD In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide. GC/FID In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C_8) and n-tetracontane (C_{40}), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C_{11}).													

Cyclohexane

SO-9052-B010	Cyclohexane HPLC Optigrade®	1 L
SO-9052-B025	Cyclohexane HPLC Optigrade®	2.5 L

UN 1145
CAS number 110-82-7
 C_6H_{12}
Assay 99.5% min.
Water 0.02% max.
Non-volatile matter 0.0003% max.
Filtered through 0.2 μ m
1 L = 0.779 kg (at 20°C)
Optical absorbance Wavelength
0.700 max 210 nm
0.320 220 nm
0.125 230 nm
0.025 245 nm
0.005 260 nm

SO-1179-B010	Cyclohexane Picograde® for residue analysis	1 L
SO-1179-B025	Cyclohexane Picograde® for residue analysis	2.5 L
SO-1179-B040	Cyclohexane Picograde® for residue analysis	4 L
SO-1179-C011	Cyclohexane Picograde® for residue analysis (Cyclotainer®)	10 L
SO-1179-C032	Cyclohexane Picograde® for residue analysis (Cyclotainer®)	30 L

UN 1145
CAS number 110-82-7
 C_6H_{12}
Assay 99.0% min.
Water 0.01% max.
Non-volatile matter 0.0005% max.
1 L = 0.779 kg (at 20°C)
Specification
GC/ECD
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 μ g/mL heptachlor-epoxide.
GC/FID
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C_8) and n-tetracontane (C_{40}), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C_{11}).

Cyclopentane

SO-6157-B010	Cyclopentane HPLC Optigrade®	1 L
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UN 1146
CAS number 287-92-3
 C_5H_{10}
Assay 75% min.
Water 0.005% max.
Non-volatile matter 0.0001% max.
Filtered through 0.2 μ m
1 L = 0.751 kg (at 20°C)
Optical absorbance Wavelength
1.0 max 200 nm
0.3 215 nm
0.02 225 nm
0.005 300 nm

n-Decane

SO-1182-B010	n-Decane Picograde® for residue analysis	1 L
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UN 2247
CAS number 124-18-5
 $CH_3(CH_2)_8CH_3$
Assay 97.0% min.
Water 0.01% max.
Non-volatile matter 0.0005% max.
1 L = 0.731 kg (at 20°C)
Specification
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 μ g/mL heptachlor-epoxide.
GC/FID
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C_8) and n-tetracontane (C_{40}), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C_{11}).

Dichloromethane

SO-4879-B010	Dichloromethane HPLC Optigrade® (stab. with amylene)	1 L
SO-4879-B025	Dichloromethane HPLC Optigrade® (stab. with amylene)	2.5 L
SO-4879-B040	Dichloromethane HPLC Optigrade® (stab. with amylene)	4 L

UN 1593
CAS number 75-09-2
CH₂Cl₂
Assay 99.8% min.
Water 0.02% max.
Non-volatile matter 0.0003% max.
Filtered through 0.2 µm
1 L = 1.335 kg (at 20°C)
stabilised with 60 - 100 ppm amylene
Optical absorbance Wavelength
1.0 max 233 nm
0.15 240 nm
0.01 254 nm
0.005 280 nm

SO-1185-B010	Dichloromethane Picograde® for residue analysis (stab. with amylene)	1 L
SO-1185-B025	Dichloromethane Picograde® for residue analysis (stab. with amylene)	2.5 L
SO-1185-B040	Dichloromethane Picograde® for residue analysis (stab. with amylene)	4 L
SO-1185-C011	Dichloromethane Picograde® for residue analysis (Cyclotainer®) (stab. with amylene)	10 L
SO-1185-C032	Dichloromethane Picograde® for residue analysis (Cyclotainer®) (stab. with amylene)	30 L

UN 1593
CAS number 75-09-2
CH₂Cl₂
Assay 99.5% min.
Water 0.02% max.
Non-volatile matter 0.0002% max.
1 L = 1.335 kg (at 20°C)
stabilised with 60 - 100 ppm amylene
Specification
GC/ECD
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.
GC/FID
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C₈) and n-tetracontane (C₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C₁₁).

SO-9800-B025	Dichloromethane nitrosamine-free	2.5 L
SO-9800-B040	Dichloromethane nitrosamine-free	4 L

Specification
N-Nitrosodimethylamine 0.1 ppb max.
N-Nitrosodiethylamine 0.1 ppb max.
N-Nitrosodi-n-propylamine 0.1 ppb max.
N-Nitrosodi-i-propylamine 0.1 ppb max.
N-Nitrosodi-n-butylamine 0.1 ppb max.
N-Nitrosopiperidine 0.1 ppb max.
N-Nitrosopyrrolidine 0.1 ppb max.
N-Nitrosomorpholine 0.1 ppb max.

Diethyl ether

SO-9012-B010	Diethyl ether HPLC Optigrade® (stab. with ethanol)	1 L
SO-9012-B025	Diethyl ether HPLC Optigrade® (stab. with ethanol)	2.5 L

UN 1155
CAS number 60-29-7
C₄H₁₀O
Assay 99.0% min.
Water 0.01% max.
Non-volatile matter 0.0005% max.
Peroxide 5 ppm max.
Filtered through 0.2 µm
1 L = 0.713 kg (at 20°C)
stabilised with 2% ethanol
Optical absorbance Wavelength
1.0 max 215 nm
0.3 230 nm
0.08 254 nm
0.04 270 nm
0.02 280 nm
0.005 300 nm

Code	Product	Unit
SO-2854-B010	Diethyl ether HPLC Optigrade® (not stabilised)	1 L
	UN 1155 CAS number 60-29-7 $C_4H_{10}O$ Assay 99.0% min. Water 0.01% max. Non-volatile matter 0.0005% max. Peroxide 5 ppm max. Filtered through 0.2 µm 1 L = 0.713 kg (at 20°C) not stabilised Optical absorbance Wavelength 1.0 max 215 nm 0.08 254 nm 0.02 280 nm	
SO-1187-B010	Diethyl ether Picograde® for residue analysis (stab. with 1.5 - 2.5 % ethanol)	1 L
SO-1187-B025	Diethyl ether Picograde® for residue analysis (stab. with 1.5 - 2.5 % ethanol)	2.5 L
	UN 1155 CAS number 60-29-7 $C_4H_{10}O$ Assay 99.0% min. Water 0.1% max. Non-volatile matter 0.001% max. Peroxide 5 ppm max. 1 L = 0.6502 kg (at 20°C) stabilised with 1.5 - 2.5% ethanol Specification GC/ECD In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide. GC/FID In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C_8) and n-tetracontane (C_{40}), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C_{11}).	

N.N-Dimethylacetamide

SO-5407-B025	N.N-Dimethylacetamide HPLC Optigrade®	2.5 L
SO-5407-B040	N.N-Dimethylacetamide HPLC Optigrade®	4 L
	CAS number 127-19-5 C_4H_9NO Assay 99.0% min. Water 0.03% max. Non-volatile matter 0.0006% max. Filtered through 0.2 µm 1 L = 0.937 kg (at 20°C) Optical absorbance Wavelength 1.0 max 270 nm 0.3 280 nm 0.15 290 nm 0.05 310 nm 0.01 360 nm	
SO-1189-B010	N.N-Dimethylformamide Picograde® for residue analysis	1 L
SO-1189-B025	N.N-Dimethylformamide Picograde® for residue analysis	2.5 L
	UN 2265 CAS number 68-12-2 C_3H_7NO Assay 99.0% min. Water 0.2% max. Non-volatile matter 0.001% max. 1 L = 0.951 kg (at 20°C) Specification GC/ECD In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide. GC/FID In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C_8) and n-tetracontane (C_{40}), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C_{11}).	

Code	Product	Unit
SO-3230-B010	N,N-Dimethylformamide Headspace Grade	1 L
	UN 2265	
	CAS number 68-12-2	
	C ₃ H ₇ NO	
	Assay (GC, on anhydrous basis).....99.99-100 %	
	Refractive index (20 °C).....1.430-1.440	
	Water (KF)0-0.03 %	
	UV cutoff wavelength190-268 nm	
	Transmission	
	at 270 nm30-100 %	
	at 275 nm60-100 %	
	at 300 nm90-100 %	
	at 320 nm97-100 %	
	Headspace test for O.V.I.passes test	

1,3-Dimethyl-2-imidazolidinone (N,N'-Dimethylethyleneurea)

SO-3260-B005	1,3-Dimethyl-2-imidazolidinone (DMI) Headspace Grade	500 ml
	Assay (GC, on anhydrous basis).....99.5-100 %	
	Refractive index (20 °C).....1.470-1473	
	Water (KF)0-0.1 %	
	UV cutoff wavelength190-270 nm	
	Transmission	
	at 275 nm40-100 %	
	at 300 nm85-100 %	
	at 325 nm95-100 %	
	at >350 nm98-100 %	
	Headspace test for O.V.I.passes test	

Dimethylsulfoxide (DMSO)

SO-3210-B010	Dimethylsulfoxide Headspace Grade	1 L
	CAS-Nr 67-68-5	
	Assay (GC, on anhydrous basis).....99.99-100 %	
	Refractive index (20 °C).....1.477-1.480	
	Water (KF)0-0.04 %	
	UV cutoff wavelength190-265 nm	
	Transmission	
	at 268 nm30-100 %	
	at 275 nm60-100 %	
	at 300 nm85-100 %	
	at 350 nm95-100 %	
	at 400 nm98-100 %	
	Headspace test for O.V.I.passes test	

1.4-Dioxan

SO-9002-B010	1.4-Dioxan HPLC Optigrade® (not stabilised)	1 L
SO-9002-B025	1.4-Dioxan HPLC Optigrade® (not stabilised)	2.5 L
	UN 1165	
	CAS number 123-91-1	
	C ₆ H ₁₀ O ₂	
	Assay 99.5% min.	
	Water 0.05% max.	
	Non-volatile matter 0.0002% max.	
	Filtered through 0.2 µm	
	1 L = 1.034 kg (at 20°C)	
	not stabilised	
	Optical absorbance	Wavelength
	0.5 max 225 nm	
	0.25 250 nm	
	0.1 270 nm	
	0.05 280 nm	
	0.01 295 nm	

Ethanol

SO-9063-B010	Ethanol HPLC Optigrade®	1 L
SO-9063-B025	Ethanol HPLC Optigrade®	2.5 L
UN 1170		
CAS number 64-17-5		
C ₂ H ₅ OH		
Assay	99.7% min.	
Water	0.1% max.	
Non-volatile matter	0.0004% max.	
Filtered through 0.2 µm		
1 L = 0.789 kg (at 20°C)		
Optical absorbance	Wavelength	
0.7 max	210 nm	
0.1	240 nm	
0.01	260 nm	

Ethyl acetate

SO-3442-B010	Ethyl acetate HPLC Optigrade®	1 L
SO-3442-B025	Ethyl acetate HPLC Optigrade®	2.5 L
SO-3442-B040	Ethyl acetate HPLC Optigrade®	4 L
UN 1173		
CAS number 141-78-6		
CH ₃ COOC ₂ H ₅		
Assay	99.5% min.	
Water	0.05% max.	
Non-volatile matter	0.0005% max.	
Filtered through 0.2 µm		
1 L = 0.897 kg (at 20°C)		
Optical absorbance	Wavelength	
1.0 max	255 nm	
0.1	260 nm	
0.05	280 nm	
0.01	300 nm	

SO-9345-B010	Ethyl acetate for LC-MS Optigrade®	1 L
SO-9345-B025	Ethyl acetate for LC-MS Optigrade®	2.5 L
UN 1173		
CAS number 141-78-6		
CH ₃ COOC ₂ H ₅		
Assay	99.5% min.	
Water	0.05% max.	
Non-volatile matter	0.0005% max.	
Filtered through 0.2 µm		
1 L = 0.897 kg (at 20°C)		
Ca	0.1 ppm max.	
K	0.1 ppm max.	
Mg	0.1 ppm max.	
Na	0.1 ppm max.	
Transmission		
at 260 nm	70 % min.	
at 280 nm	99 % min.	

SO-1191-B010	Ethyl acetate Picograde® for residue analysis	1 L
SO-1191-B025	Ethyl acetate Picograde® for residue analysis	2.5 L
SO-1191-B040	Ethyl acetate Picograde® for residue analysis	4 L
SO-1191-C011	Ethyl acetate Picograde® for residue analysis (Cyclotainer®)	10 L
SO-1191-C032	Ethyl acetate Picograde® for residue analysis (Cyclotainer®)	30 L

UN 1173
CAS number 141-78-6
CH₃COOC₂H₅
Assay

Assay	99.0% min.
Water	0.05% max.
Non-volatile matter	0.0005% max.

1 L = 0.897 kg (at 20°C)

Specification

GC/ECD
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.

GC/FID
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C₈) and n-tetracontane (C₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C₁₁).

n-Heptane

SO-5139-B010	n-Heptane HPLC Optigrade®	1 L
SO-5139-B025	n-Heptane HPLC Optigrade®	2.5 L
SO-5139-B040	n-Heptane HPLC Optigrade®	4 L

UN 1206
CAS number 142-82-5
 C_7H_{16}
Assay 95.0% min.
Water 0.02% max.
Non-volatile matter 0.0003% max.
Filtered through 0.2 μ m
1 L = 0.685 kg (at 20°C)
Optical absorbance Wavelength
1.0 max 197 nm
0.4 210 nm
0.1 225 nm
0.01 254 nm

SO-1210-B025	n-Heptane Picograde® for residue analysis	2.5 L
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UN 1206
CAS number 142-82-5
 C_7H_{16}
Assay 97.0% min.
Water 0.01% max.
Non-volatile matter 0.0002% max.
1 L = 0.682 kg (at 20°C)
Specification
GC/ECD
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 μ g/mL heptachlor-epoxide.
GC/FID
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C_8) and n-tetracontane (C_{40}), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C_{11}).

n-Hexane

SO-5167-B010	n-Hexane HPLC Optigrade®	1 L
SO-5167-B025	n-Hexane HPLC Optigrade®	2.5 L
SO-5167-B040	n-Hexane HPLC Optigrade®	4 L
SO-5167-C012	n-Hexane HPLC Optigrade® (Cyclotainer®)	10 L
SO-5167-C032	n-Hexane HPLC Optigrade® (Cyclotainer®)	30 L

UN 1208
CAS number 110-54-3
 C_6H_{14}
Assay (of C_6 -isomers) 99.8% min.
Water 0.1% max.
Non-volatile matter 0.0003% max.
Filtered through 0.2 μ m
1 L = 0.659 kg (at 20°C)
Optical absorbance Wavelength
1.0 max 185 nm
0.25 210 nm
0.1 220 nm
0.01 254 nm
0.005 280 nm
0.005 350 nm

SO-1244-B010	n-Hexane Picograde® for residue analysis	1 L
SO-1244-B025	n-Hexane Picograde® for residue analysis	2.5 L
SO-1244-B040	n-Hexane Picograde® for residue analysis	4 L
SO-1244-C011	n-Hexane Picograde® for residue analysis (Cyclotainer®)	10 L
SO-1244-C032	n-Hexane Picograde® for residue analysis (Cyclotainer®)	30 L

UN 1208
CAS number 110-54-3
C₆H₁₄
Assay (of C₆-isomers) 97.0% min.
Water 0.01% max.
Non-volatile matter 0.0002% max.
1 L = 0.659 kg (at 20°C)
Specification
GC/ECD
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.
GC/FID
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C₈) and n-tetracontane (C₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C₁₁).

Code	Product	Unit
SO-9500-B010	n-Hexane for the analysis of highly volatile halogenated hydrocarbons and EOX	1 L
SO-9500-B025	n-Hexane for the analysis of highly volatile halogenated hydrocarbons and EOX	2.5 L

UN 1208
CAS number 110-54-3
C₆H₁₄
Assay (of C₆-isomers) 96.0% min.
Water 0.01% max.
Non-volatile matter 0.0002% max.
1 L = 0.651 kg (at 20°C)
Specification
Highly volatile halogenated hydrocarbons/EOX
In the GC/ECD chromatogram there are no interfering single signals in the retention time interval between 1,1-dichloroethene and tribromomethane greater than that, given by 5 µg/L parathion-methyl.
Coulometric determination of EOX gives a halogen content as chloride of less than 0.3 mg/L.

SO-9823-B040	Hexane nitrosamine-free	4 L
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Specification
N-Nitrosodimethylamine 0.1 ppb max.
N-Nitrosodiethylamine 0.1 ppb max.
N-Nitrosodi-n-propylamine 0.1 ppb max.
N-Nitrosodi-i-propylamine 0.1 ppb max.
N-Nitrosodi-n-butylamine 0.1 ppb max.
N-Nitrosopiperidine 0.1 ppb max.
N-Nitrosopyrrolidine 0.1 ppb max.
N-Nitrosomorpholine 0.1 ppb max.

Iso-Hexane

SO-9043-B025	Iso-Hexane HPLC Optigrade®	2.5 L
UN 1208		
CAS number 107-83-5		
C ₆ H ₁₄		
Assay (of C ₆ -isomers)	95.0% min.	
Water	0.01% max.	
Non-volatile matter	0.0002% max.	
1 L = 0.653 kg (at 20°C)		
Optical absorbance	Wavelength	
1.0 max	195 nm	
0.25	210 nm	
0.2	217 nm	
0.125	220 nm	
0.02	245 nm	

SO-1251-B025	Iso-Hexane Picograde® for residue analysis	2.5 L
UN 1208		
CAS number 107-83-5		
C ₆ H ₁₄		
Assay (of C ₆ -isomers)	95.0% min.	
Water	0.01% max.	
Non-volatile matter	0.0002% max.	
1 L = 0.653 kg (at 20°C)		
Specification		
GC/ECD		
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.		
GC/FID		
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C ₈) and n-tetracontane (C ₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C ₁₁).		

Hydrochloric acid

HPA-0010-B010	Hydrochloric acid for trace analysis min. 36 % (glass bottle)	1 L			
UN 1789					
Assay	> 36 %	free chlorine	< 0.5 ppm		
Residue	< 3 ppm	Phosphate	< 0.05 ppm		
Colour (APHA)	< 10	Sulfite	< 0.5 ppm		
Bromide	< 50 ppm	Sulfate	< 0.5 ppm		
Ag	< 0.1 ppb	Cu	< 0.1 ppb	Sb	< 0.1 ppb
Al	< 0.5 ppb	Fe	< 1 ppb	Se	< 0.1 ppb
As	< 0.1 ppb	Hg	< 0.2 ppb	Sn	< 0.1 ppb
B	< 1 ppb	K	< 0.1 ppb	Sr	< 0.1 ppb
Ba	< 0.1 ppb	Li	< 0.1 ppb	Th	< 0.1 ppb
Be	< 0.1 ppb	Mg	< 0.5 ppb	Ti	< 0.1 ppb
Bi	< 0.1 ppb	Mn	< 0.1 ppb	U	< 0.1 ppb
Ca	< 0.5 ppb	Mo	< 0.1 ppb	V	< 0.1 ppb
Cd	< 0.1 ppb	Na	< 0.5 ppb	Zn	< 0.5 ppb
Co	< 0.1 ppb	Ni	< 0.1 ppb	Zr	< 0.1 ppb
Cr	< 0.1 ppb	Pb	< 0.1 ppb		

Hydrochloric acid stored in glass bottles will see a rise in: Al, B, Ca, K, Mg, Mn, Na and Si.

Hydrofluoric acid

HPA-0030-B010 Hydrofluoric acid for trace analysis min. 48 % (HDPE bottle) 1 L

UN 1790

Assay.....	> 48 %	Phosphate	< 0.1 ppm
Colour (HAZEN).....	< 10	Sulfate	< 0.5 ppm
Chloride.....	< 1 ppm	Hexafluorosilicate.....	< 20 ppm
Ag.....	< 1 ppb	Cu.....	< 1 ppb
Al.....	< 1 ppb	Fe.....	< 1 ppb
As.....	< 1 ppb	Hg.....	< 1 ppb
Ba.....	< 1 ppb	K.....	< 1 ppb
Be.....	< 1 ppb	Li.....	< 1 ppb
Bi.....	< 1 ppb	Mg.....	< 1 ppb
Ca.....	< 1 ppb	Mn.....	< 1 ppb
Cd.....	< 1 ppb	Mo.....	< 1 ppb
Co.....	< 1 ppb	Na.....	< 1 ppb
Cr.....	< 1 ppb	Ni.....	< 1 ppb
		Pb.....	< 1 ppb
		Se.....	< 1 ppb
		Si.....	< 1 ppb
		Sn.....	< 1 ppb
		Sr.....	< 1 ppb
		Ti.....	< 1 ppb
		V.....	< 1 ppb
		Zn.....	< 1 ppb

Hydrofluoric acid stored in polyethylene bottles will see a rise in: Al, Ca, Fe, Na and Zn.

Methanol

SO-9510-B010 Methanol Purge & Trap 1 L

UN 1230

CAS number 67-56-1

CH₃OH

Assay..... 99.9% min.

Water..... < 1 mg/L

Non-volatile matter..... < 0.10%

2-Butanone (GC/MS; P&T)..... < 10 µg/L

Other volatile impurities..... passes tests

1 L = 0.792 kg (at 20°C)

SO-9260-B010 Methanol HPLC Optigrade® Gradient Grade 1 L

SO-9260-B025 Methanol HPLC Optigrade® Gradient Grade 2.5 L

SO-9260-C012 Methanol HPLC Optigrade® Gradient Grade (Cyclotainer®) 10 L

SO-9260-C032 Methanol HPLC Optigrade® Gradient Grade (Cyclotainer®) 30 L

UN 1230

CAS number 67-56-1

CH₃OH

Assay..... 99.9% min.

Water..... 0.05% max.

Non-volatile matter..... 0.0003% max.

Gradient specification (235 nm)..... 0.002 AE max.

Gradient specification (254 nm)..... 0.001 AE max.

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

Filtered through 0.2 µm

1 L = 0.792 kg (at 20°C)

Optical absorbance	Wavelength
0.43 max.....	210 nm
0.25.....	220 nm
0.12.....	230 nm
0.08.....	235 nm
0.015.....	254 nm
0.005.....	280 nm

This solvent in glass bottles fulfills the specifications according to chapter 4 of the European Pharmacopoeia.

SO-3041-B010 Methanol HPLC Optigrade® 1 L

SO-3041-B025 Methanol HPLC Optigrade® 2.5 L

SO-3041-B040 Methanol HPLC Optigrade® 4 L

SO-3041-C012 Methanol HPLC Optigrade® (Cyclotainer®) 10 L

SO-3041-C032 Methanol HPLC Optigrade® (Cyclotainer®) 30 L

UN 1230

CAS number 67-56-1

CH₃OH

Assay..... 99.9% min.

Water..... 0.05% max.

Non-volatile matter..... 0.0003% max.

Filtered through 0.2 µm

1 L = 0.792 kg (at 20°C)

Optical absorbance	Wavelength
1.0 max.....	205 nm
0.25.....	220 nm
0.05.....	240 nm
0.015.....	254 nm
0.005.....	280 nm
0.005.....	350 nm

This solvent in glass bottles fulfills the specifications according to chapter 4 of the European Pharmacopoeia.

Code	Product	Unit
SO-9658-B010	Methanol ULC-MS Optigrade®	1 L
	UN 1230 CAS number 67-56-1 CH ₃ OH Assay (GC, on anhydrous basis) 99.98-100 % Water (KF) 0-0.03% Residue after evaporation 0-0.0001 %w/w Acidity (as acetic acid) 0-0.002 % Alkalinity (as ammonia) 0-0.0001 % Color (APHA) 0-5 Gradient specification HPLC gradient at 220 nm - Drift 0-0.01 AU HPLC gradient at 235 nm - Drift 0-0.005 AU HPLC gradient at 220 nm - H. Peak 0-0.004 AU HPLC gradient at 235 nm - H. Peak 0-0.002 AU Fluorescence at 254 nm (as quinine) 0-0.5 ppb Fluorescence at 365 nm (as quinine) 0-0.3 ppb 1 L = 0.783 kg (at 20°C) Transmission at 210 nm 40-100 % at 220 nm 65-100 % at 230 nm 80-100 % at 260 nm 98-100 % Al 0-20 ppb Ca 0-100 ppb Fe 0-20 ppb K 0-50 ppb Mg 0-20 ppb Na 0-100 ppb Microfiltered through 0.1 µm/bottled under inert gas	
SO-9356-B010	Methanol for LC-MS Optigrade®	1 L
SO-9356-B025	Methanol for LC-MS Optigrade®	2.5 L
	UN 1230 CAS number 67-56-1 CH ₃ OH Assay 99.9% min. Water 0.05% max. Non-volatile matter 0.0003% max. Filtered through 0.2 µm 1 L = 0.792 kg (at 20°C) Ca 0.1 ppm max. K 0.1 ppm max. Mg 0.1 ppm max. Na 0.1 ppm max. Transmission at 210 nm 40 % min. at 220 nm 60 % min. at 235 nm 80 % min. at 260 nm 98 % min.	
SO-1263-B010	Methanol Picograde® for residue analysis	1 L
SO-1263-B025	Methanol Picograde® for residue analysis	2.5 L
SO-1263-B040	Methanol Picograde® for residue analysis	4 L
SO-1263-C011	Methanol Picograde® for residue analysis (Cyclotainer®)	10 L
	UN 1230 CAS number 67-56-1 CH ₃ OH Assay 99.0% min. Water 0.1% max. Non-volatile matter 0.0005% max. 1 L = 0.792 kg (at 20°C) Specification GC/ECD In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide. GC/FID In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C ₈) and n-tetracontane (C ₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C ₁₁).	
SO-9835-B010	Methanol nitrosamine-free	1 L
SO-9835-B040	Methanol nitrosamine-free	4 L
	Specification N-Nitrosodimethylamine 0.1 ppb max. N-Nitrosodiethylamine 0.1 ppb max. N-Nitrosodi-n-propylamine 0.1 ppb max. N-Nitrosodi-i-propylamine 0.1 ppb max. N-Nitrosodi-n-butylamine 0.1 ppb max. N-Nitrosopiperidine 0.1 ppb max. N-Nitrosopyrrolidine 0.1 ppb max. N-Nitrosomorpholine 0.1 ppb max.	

2-Methoxyethanol

SO-9509-B010	2-Methoxyethanol for the analysis of highly volatile halogenated hydrocarbons	1 L
UN 1188		
CAS number 109-86-4		
C ₃ H ₈ O ₂		
Assay	99.7% min.	
Water	0.08% max.	
Non-volatile matter.....	0.0006% max.	
1 L = 0.961 kg (at 20°C)		
Specification		
Highly volatile halogenated hydrocarbons		
In the GC/ECD chromatogram there are no interfering single signals in the retention time interval between 1,1-dichloroethene and tribromomethane greater than that, given by 5 µg/L parathion-methyl.		
BTEX for FID		
In the GC-FID chromatogram the sum of the signals of BTEX-compounds is not greater than the signal, given by 10 µg/L n-Decane.		

Methyl-tert-butyl ether

SO-5398-B025	Methyl-tert-butyl ether HPLC Optigrade®	2.5 L
UN 2398		
CAS number 1634-04-4		
C ₈ H ₁₈ O		
Assay	99.7% min.	
Water	0.05% max.	
Non-volatile matter.....	0.0006% max.	
Filtered through 0.2 µm		
1 L = 0.742 kg (at 20°C)		
Optical absorbance	Wavelength	
1.0 max	270 nm	
0.3	275 nm	
0.1	295 nm	
0.05	310 nm	
0.01	340 nm	

SO-1265-B010	Methyl-tert-butyl ether for residue analysis Picograde®	1 L
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SO-1265-B025	Methyl-tert-butyl ether for residue analysis Picograde®	2.5 L
UN 2398		
CAS number 1634-04-4		
C ₈ H ₁₈ O		
Assay	99.8% min.	
Water	0.05% max.	
Non-volatile matter.....	0.0005% max.	
1 L = 0.742 kg (at 20°C)		
Specification		
GC/ECD		
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.		
GC/FID		
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C ₈) and n-tetracontane (C ₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C ₁₁).		

Nitric acid

HPA-0020-B010	Nitric acid for trace analysis min 67 % (glass bottle)	1 L
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UN 2031					
Assay.....	> 67 %	Phosphate	< 0.1 ppm		
Residue	< 1 ppm	Sulfate	< 0.5 ppm		
Chloride	< 0.08 ppm				
Ag	< 0.1 ppb	Cu	< 0.1 ppb	Pb	< 0.1 ppb
Al	< 0.5 ppb	Fe	< 0.5 ppb	Se	< 0.1 ppb
As	< 0.1 ppb	Hg	< 0.2 ppb	Sn	< 0.1 ppb
Ba	< 0.1 ppb	K	< 0.2 ppb	Sr	< 0.1 ppb
Be	< 0.1 ppb	Li	< 0.1 ppb	Th	< 0.1 ppb
Bi	< 0.1 ppb	Mg	< 0.5 ppb	Ti	< 0.1 ppb
Ca	< 0.5 ppb	Mn	< 0.1 ppb	V	< 0.1 ppb
Cd	< 0.1 ppb	Mo	< 0.1 ppb	Zn	< 0.5 ppb
Co	< 0.1 ppb	Na	< 0.5 ppb		
Cr	< 0.2 ppb	Ni	< 0.1 ppb		

Nitric Acid stored in glass bottles will see a rise in: Al, B, Ca, K, Mg, Mn, Na and Si.

n-Nonane

SO-4436-B010	n-Nonane HPLC Optigrade®	1 L
	UN 1920	
	CAS number 111-84-2	
	C ₉ H ₂₀	
	Assay	95% min.
	Water	0.01% max.
	Non-volatile matter	0.0003% max.
	Filtered through 0.2 µm	
	1 L = 0.719 kg (at 20°C)	
	Optical absorbance	Wavelength
	1.0 max	200 nm
	0.1	225 nm
	0.05	250 nm
	0.005	300 nm

SO-1271-B010	n-Nonane Picograde® for residue analysis	1 L
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SO-1271-B025	n-Nonane Picograde® for residue analysis	2.5 L
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UN 1920
CAS number 111-84-2
C₉H₂₀
Assay, 95.0% min.
Water, 0.01% max.
Non-volatile matter, 0.0005% max.
1 L = 0.719 kg (at 20°C)
Specification
GC/ECD
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.
GC/FID
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C₈) and n-tetracontane (C₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C₁₁).

n-Octane

SO-1279-B010	n-Octane Picograde® for residue analysis	1 L
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UN 1262
CAS number 111-65-9
CH₃(CH₂)₆CH₃
Assay, 95.0% min.
Water, 0.01% max.
Non-volatile matter, 0.0005% max.
1 L = 0.703 kg (at 20°C)
Specification
GC/ECD
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.
GC/FID
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C₈) and n-tetracontane (C₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C₁₁).

n-Pentane

SO-9081-B010	n-Pentane HPLC Optigrade®	1 L
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UN 1265
CAS number 109-66-0
C₅H₁₂
Assay, 99.0% min.
Water, 0.01% max.
Non-volatile matter, 0.001% max.
Filtered through 0.2 µm
1 L = 0.626 kg (at 20°C)
Optical absorbance Wavelength |

1.0 max, 200 nm
0.7, 210 nm
0.3, 215 nm
0.05, 225 nm
0.01, 240 nm

Code	Product	Unit
SO-1282-B010	n-Pentane Picograde® for residue analysis	1 L
SO-1282-B025	n-Pentane Picograde® for residue analysis	2.5 L
SO-1282-B040	n-Pentane Picograde® for residue analysis	4 L
	UN 1265 CAS number 109-66-0 C ₅ H ₁₂ Assay 98.0% min. Water 0.01% max. Non-volatile matter 0.0005% max. 1 L = 0.626 kg (at 20°C) Specification GC/ECD In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide. GC/FID In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C ₈) and n-tetracontane (C ₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C ₁₁).	
SO-9501-B010	n-Pentane for the analysis of highly volatile halogenated hydrocarbons	1 L
	UN 1265 CAS number 109-66-0 C ₅ H ₁₂ Assay 95.0% min. Water 0.01% max. Non-volatile matter 0.0005% max. 1 L = 0.632 kg (at 20°C) Specification Highly volatile halogenated hydrocarbons In the GC/ECD chromatogram there are no interfering single signals in the retention time interval between 1,1-dichloroethene and tribromomethane greater than that, given by 5 µg/L parathion-methyl.	
SO-9610-B005	n-Pentane for the analysis of highly volatile halogenated hydrocarbons, aromatic hydrocarbons and EOX	500 mL
	UN 1265 CAS number 109-66-0 C ₅ H ₁₂ Assay 98.0% min. Water 0.01% max. Non-volatile matter 0.0005% max. 1 L = 0.626 kg (at 20°C) Specification Highly volatile halogenated hydrocarbons In the GC/ECD chromatogram there are no interfering single signals in the retention time interval between 1,1-dichloroethene and tribromomethane greater than that, given by 5 µg/L parathion-methyl. BTEX for FID In the GC-FID chromatogram the sum of the signals of BTEX-compounds is not greater than the signal, given by 10 µg/L n-Decane. Coulometric determination of EOX gives a halogen content as chloride of less than 0.3 mg/L.	

Perchloric acid

Code	Product	Unit
HPA-0060-B010	Perchloric acid for trace analysis min 68 % (glass bottle)	1 L
	UN 1802 Assay > 68 % Colour (APHA) < 10 Phosphate < 0.1 ppm Sulfate < 5 ppm Total nitrogen < 10 ppm Ag < 0.1 ppb Al < 0.5 ppb Ba < 0.1 ppb Be < 0.1 ppb Bi < 0.1 ppb Ca < 0.5 ppb Cd < 0.1 ppb Co < 0.1 ppb Cu < 0.1 ppb Fe < 0.5 ppb K < 0.5 ppb Li < 0.1 ppb Mg < 0.5 ppb Mn < 0.1 ppb Mo < 0.1 ppb Na < 0.5 ppb Ni < 0.1 ppb Pb < 0.1 ppb Sn < 0.1 ppb Sr < 0.1 ppb Th < 0.1 ppb Tl < 0.1 ppb V < 0.5 ppb Zn < 0.5 ppb Perchloric acid stored in glass bottles will see a rise in: Al, B, Ca, K, Mg, Mn, Na and Si.	

Petroleum ether

SO-1320-B010	Petroleum ether Picograde® for residue analysis (30 - 60°C)	1 L
SO-1320-B025	Petroleum ether Picograde® for residue analysis (30 - 60°C)	2.5 L
SO-1320-B040	Petroleum ether Picograde® for residue analysis (30 - 60°C)	4 L
SO-1320-C011	Petroleum ether Picograde® for residue analysis (Cyclotainer®) (30 - 60°C)	10 L
SO-1320-C032	Petroleum ether Picograde® for residue analysis (Cyclotainer®) (30 - 60°C)	30 L

UN 1268

CAS number 8032-32-4

Boiling point range 30 - 60°C min.

Water 0.01% max.

Non-volatile matter 0.0005% max.

1 L = 0.825...0.855 kg (at 20°C)

Specification

GC/ECD

In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.

GC/FID

In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C₈) and n-tetracontane (C₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C₁₁).

SO-9502-B010	Petroleum ether for the analysis of highly volatile halogenated hydrocarbons and EOX (40 - 60°C)	1 L
SO-9502-B025	Petroleum ether for the analysis of highly volatile halogenated hydrocarbons and EOX (40 - 60°C)	2.5 L

UN 1268

CAS number 8032-32-4

Boiling point 40 - 60°C min.

Water 0.01% max.

Non-volatile matter 0.0005% max.

1 L = 0.825...0.855 kg (at 20°C)

Specification

Highly volatile halogenated hydrocarbons/EOX

In the GC/ECD chromatogram there are no interfering single signals in the retention time interval between 1,1-dichloroethene and tribromomethane greater than that, given by 5 µg/L parathion-methyl.

Coulometric determination of EOX gives a halogen content as chloride of less than 0.3 mg/L.

Propan-1-ol

SO-5351-B025	Propan-1-ol HPLC Optigrade®	2.5 L
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UN 1274

CAS number 71-23-8

CH₃CH₂CH₂OH

Assay 99.8% min.

Water 0.05% max.

Non-volatile matter 0.001% max.

Filtered through 0.2 µm

1 L = 0.804 kg (at 20°C)

Optical absorbance

Wavelength

0.5 max 225 nm

0.05 250 nm

0.01 270 nm

0.005 300 nm

Propan-2-ol

SO-3043-B010	Propan-2-ol HPLC Optigrade®	1 L
SO-3043-B025	Propan-2-ol HPLC Optigrade®	2.5 L
SO-3043-B040	Propan-2-ol HPLC Optigrade®	4 L
SO-3043-C012	Propan-2-ol HPLC Optigrade® (Cyclotainer®)	10 L
SO-3043-C032	Propan-2-ol HPLC Optigrade® (Cyclotainer®)	30 L

UN 1219

CAS number 67-63-0

C₃H₈O

Assay 99.5% min.

Water 0.05% max.

Non-volatile matter 0.0006% max.

Filtered through 0.2 µm

1 L = 0.786 kg (at 20°C)

Optical absorbance

Wavelength

1.0 max 205 nm

0.3 220 nm

0.15 230 nm

0.02 254 nm

0.01 350 nm

Code	Product	Unit
SO-9352-B010	Propan-2-ol for LC-MS Optigrade®	1 L
SO-9352-B025	Propan-2-ol for LC-MS Optigrade®	2.5 L
	UN 1219	
	CAS number 67-63-0	
	C ₃ H ₈ O	
	Assay 99.5% min.	
	Water 0.05% max.	
	Non-volatile matter 0.0006% max.	
	Filtered through 0.2 µm	
	1 L = 0.786 kg (at 20°C)	
	Ca 0.1 ppm max.	
	K 0.1 ppm max.	
	Mg 0.1 ppm max.	
	Na 0.1 ppm max.	
	Transmission	
	at 220 nm 60 % min.	
	at 250 nm 99 % min.	
SO-1334-B010	Propan-2-ol Picograde® for residue analysis	1 L
SO-1334-B025	Propan-2-ol Picograde® for residue analysis	2.5 L
SO-1334-B040	Propan-2-ol Picograde® for residue analysis	4 L
	UN 1219	
	CAS number 67-63-0	
	C ₃ H ₈ O	
	Assay 99.5% min.	
	Water 0.2% max.	
	Non-volatile matter 0.0005% max.	
	1 L = 0.786 kg (at 20°C)	
	Specification	
	GC/ECD	
	In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.	
	GC/FID	
	In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C ₈) and n-tetracontane (C ₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C ₁₁).	
SO-3044-B040	Propan-2-ol for the tobacco industry contains n-Heptadecane 0.3 g/L Ethanol 2.0 g/L	4 L
SO-3046-B040	Propan-2-ol for the tobacco industry contains n-Heptadecane 0.8 g/L Ethanol abs 4.0 g/L Water 0.1 %	4 L
SO-3047-B040	Propan-2-ol for the tobacco industry contains n-Heptadecane 0.4 g/L Ethanol abs 2.0 g/L	4 L

Sulfuric acid

HPA-0040-B010	Sulfuric acid min 95 % (glass bottle)	1 L	
	UN 1830		
	Assay 95 %	Chloride < 0.1 pp	
	Density 1.83 g/mL	Phosphate < 0.5 ppm	
	Colour (APHA) < 10	Nitrate < 0.07 ppm	
	Residue < 2 ppm		
	Ag < 0.1 ppb	Fe < 0.5 ppb	Se < 5 ppb
	Al < 0.5 ppb	Hg < 1 ppb	Sn < 0.1 ppb
	As < 1 ppb	K < 0.5 ppb	Sr < 0.1 ppb
	Ba < 0.1 ppb	Li < 0.1 ppb	Th < 0.1 ppb
	Be < 0.1 ppb	Mg < 0.5 ppb	Ti < 1 ppb
	Bi < 0.1 ppb	Mn < 0.1 ppb	U < 0.1 ppb
	Ca < 0.5 ppb	Mo < 0.1 ppb	V < 0.1 ppb
	Cd < 0.1 ppb	Na < 0.5 ppb	Zn < 0.1 ppb
	Co < 0.1 ppb	Ni < 0.1 ppb	Zr < 0.1 ppb
	Cr < 0.1 ppb	Pb < 0.1 ppb	
	Cu < 0.1 ppb	Sb < 0.1 ppb	
	Sulfuric acid stored in glass bottles will see a rise in: Al, B, Ca, K, Mg, Mn, Na and Si.		

Tetrahydrofuran														
SO-2858-B010	Tetrahydrofuran HPLC Optigrade® (not stabilised)	1 L												
SO-2858-B025	Tetrahydrofuran HPLC Optigrade® (not stabilised)	2.5 L												
SO-2858-B040	Tetrahydrofuran HPLC Optigrade® (not stabilised)	4 L												
UN 2056 CAS number 109-99-9 C_4H_8O Assay 99.8% min. Water 0.03% max. Non-volatile matter 0.0007% max. Filtered through 0.2 μ m 1 L = 0.887 kg (at 20°C) not stabilised <table border="0"> <thead> <tr> <th>Optical absorbance</th> <th>Wavelength</th> </tr> </thead> <tbody> <tr> <td>1.0 max</td> <td>212 nm</td> </tr> <tr> <td>0.5</td> <td>225 nm</td> </tr> <tr> <td>0.17</td> <td>250 nm</td> </tr> <tr> <td>0.01</td> <td>300 nm</td> </tr> </tbody> </table>			Optical absorbance	Wavelength	1.0 max	212 nm	0.5	225 nm	0.17	250 nm	0.01	300 nm		
Optical absorbance	Wavelength													
1.0 max	212 nm													
0.5	225 nm													
0.17	250 nm													
0.01	300 nm													
SO-9364-B010	Tetrahydrofuran for LC-MS Optigrade® (not stabilised)	1 L												
SO-9364-B025	Tetrahydrofuran for LC-MS Optigrade® (not stabilised)	2.5 L												
UN 2056 CAS number 109-99-9 C_4H_8O Assay 99.8% min. Water 0.03% max. Non-volatile matter 0.0007% max. Filtered through 0.2 μ m 1 L = 0.887 kg (at 20°C) not stabilised <table border="0"> <tbody> <tr> <td>Ca</td> <td>0.1 ppm max.</td> </tr> <tr> <td>K</td> <td>0.1 ppm max.</td> </tr> <tr> <td>Mg</td> <td>0.1 ppm max.</td> </tr> <tr> <td>Na</td> <td>0.1 ppm max.</td> </tr> </tbody> </table> Transmission at 250 nm 80 % min. at 290 nm 99 % min.			Ca	0.1 ppm max.	K	0.1 ppm max.	Mg	0.1 ppm max.	Na	0.1 ppm max.				
Ca	0.1 ppm max.													
K	0.1 ppm max.													
Mg	0.1 ppm max.													
Na	0.1 ppm max.													
Toluene														
SO-4483-B010	Toluene HPLC Optigrade®	1 L												
SO-4483-B025	Toluene HPLC Optigrade®	2.5 L												
SO-4483-B040	Toluene HPLC Optigrade®	4 L												
UN 1294 CAS number 108-88-3 C_7H_8 Assay 99.7% min. Water 0.03% max. Non-volatile matter 0.0005% max. 1 L = 0.866 kg (at 20°C) <table border="0"> <thead> <tr> <th>Optical absorbance</th> <th>Wavelength</th> </tr> </thead> <tbody> <tr> <td>1.0 max</td> <td>285 nm</td> </tr> <tr> <td>0.4</td> <td>288 nm</td> </tr> <tr> <td>0.15</td> <td>300 nm</td> </tr> <tr> <td>0.02</td> <td>335 nm</td> </tr> <tr> <td>0.01</td> <td>350 nm</td> </tr> </tbody> </table>			Optical absorbance	Wavelength	1.0 max	285 nm	0.4	288 nm	0.15	300 nm	0.02	335 nm	0.01	350 nm
Optical absorbance	Wavelength													
1.0 max	285 nm													
0.4	288 nm													
0.15	300 nm													
0.02	335 nm													
0.01	350 nm													
SO-1350-B010	Toluene Picograde® for residue analysis	1 L												
SO-1350-B025	Toluene Picograde® for residue analysis	2.5 L												
SO-1350-B040	Toluene Picograde® for residue analysis	4 L												
SO-1350-C011	Toluene Picograde® for residue analysis (Cyclotainer®)	10 L												
SO-1350-C032	Toluene Picograde® for residue analysis (Cyclotainer®)	30 L												
UN 1294 CAS number 108-88-3 C_7H_8 Assay 99.8% min. Water 0.02% max. Non-volatile matter 0.0005% max. 1 L = 0.866 kg (at 20°C) Specification GC/ECD In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 μ g/mL heptachlor-epoxide. GC/FID In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C_8) and n-tetracontane (C_{40}), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C_{11}).														

1,1,2-Trichloro-1,2,2-trifluoroethane

SO-9145-B025	1,1,2-Trichloro-1,2,2-trifluoroethane for IR-spectroscopy	2.5 L
	UN 3082	
	CAS number 76-13-1	
	C ₂ Cl ₃ F ₃	
	Assay.....	99.8% min.
	Non-volatile matter.....	2 mg/L max.
	Water.....	10 mg/kg max.
	Hydrocarbons.....	5 mg/kg max.
	1 L = 1.57 kg (at 20°C)	

2,2,4-Trimethylpentane

SO-6043-B010	2,2,4-Trimethylpentane (Isooctane) HPLC Optigrade®	1 L
SO-6043-B025	2,2,4-Trimethylpentane (Isooctane) HPLC Optigrade®	2.5 L
SO-6043-B040	2,2,4-Trimethylpentane (Isooctane) HPLC Optigrade®	4 L
	UN 1262	
	CAS number 540-84-1	
	C ₈ H ₁₈	
	Assay.....	99.5% min.
	Water.....	0.02% max.
	Non-volatile matter.....	0.0005% max.
	Filtered through 0.2 µm	
	1 L = 0.690 kg (at 20°C)	
	Optical absorbance	Wavelength
	1.0 max.....	205 nm
	0.2.....	220 nm
	0.1.....	230 nm
	0.01.....	254 nm

SO-1364-B010	2,2,4-Trimethylpentane (Isooctane) Picograde® for residue analysis	1 L
SO-1364-B025	2,2,4-Trimethylpentane (Isooctane) Picograde® for residue analysis	2.5 L
SO-1364-B040	2,2,4-Trimethylpentane (Isooctane) Picograde® for residue analysis	4 L

UN 1262
CAS number 540-84-1
C₈H₁₈
Assay..... 95.0% min.
Water..... 0.02% max.
Non-volatile matter..... 0.0005% max.
1 L = 0.690 kg (at 20°C)
Specification
GC/ECD
In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.
GC/FID
In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C₈) and n-tetracontane (C₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C₁₁).

Water

SO-6795-B025	Water HPLC Optigrade®	2.5 L
SO-6795-B040	Water HPLC Optigrade®	4 L
	CAS number 7732-18-5	
	H ₂ O	
	Fluorescence (as quinine at 450 nm).....	1.10-7 g max.
	Non-volatile matter.....	1 mg/L max.
	Filtered through 0.2 µm	
	pH.....	5.0 - 8.0

This solvent in glass bottles fulfills the specifications according to chapter 4 of the European Pharmacopoeia.

Code	Product	Unit
SO-9662-B010	Water ULC-MS Optigrade™	1 L
	CAS number 7732-18-5 H ₂ O Residue after evaporation.....0-0.0001 %w/w Acidity (as Acetic acid).....0-0.002 % Alkalinity (as Ammonia).....0-0.00005 % Resistivity (at manuf.).....18.2-100 Mohm*cm Gradient specification HPLC gradient at 210 nm - H. Peak.....0-0.002 AU HPLC gradient at 254 nm - H. Peak.....0-0.0005 AU Fluorescence at 254 nm (as quinine).....0-0.5 ppb Fluorescence at 365 nm (as quinine).....0-0.5 ppb TOC.....0-10 ppb Filter test.....Passes test Ca.....0-0.1 ppm K.....0-0.1 ppm Mg.....0-0.1 ppm Na.....0-0.1 ppm Microfiltered through 0.1 µm/bottled under inert gas	
SO-4661-B025	Water 0.1 % formic acid ULC-MS Optigrade®	2.5 L
	Assay.....0.095-0.105 % Purity of formic acid (GC).....99.0-100 % Gradient specification HPLC gradient at 254 nm - H. Peak.....0-0.002 AU HPLC gradient at 254 nm - Drift.....0-0.010 AU Fluorescence at 254 nm (as quinine).....0-0.5 ppb Fluorescence at 365 nm (as quinine).....0-0.5 ppb Transmission at 210 nm.....5-100 % at 230 nm.....45-100 % at 254 nm.....99-100 % Al.....0-30 ppb Ca.....0-100 ppb Fe.....0-50 ppb K.....0-100 ppb Mg.....0-30 ppb Na.....0-100 ppb Microfiltered through 0.1 µm/bottled under inert gas	
SO-4667-B025	Water 0.1 % acetic acid ULC-MS Optigrade®	2.5 L
	Assay.....0.095-0.105 % pH.....3.2-3.4 Purity of acetic acid (GC).....99.9-100 % Gradient specification HPLC gradient at 254 nm - H. Peak.....0-0.002 AU HPLC gradient at 254 nm - Drift.....0-0.010 AU Fluorescence at 254 nm (as quinine).....0-0.5 ppb Fluorescence at 365 nm (as quinine).....0-0.5 ppb Transmission at 210 nm.....20-100 % at 230 nm.....75-100 % at 254 nm.....99-100 % Al.....0-30 ppb Ca.....0-100 ppb Fe.....0-50 ppb K.....0-100 ppb Mg.....0-30 ppb Na.....0-100 ppb Microfiltered through 0.1 µm/bottled under inert gas	
SO-4673-B025	Water 0.1 % trifluoroacetic acid ULC-MS Optigrade®	2.5 L
	Assay.....0.095-0.105 % Purity of trifluoroacetic acid (GC).....99.95-100 % Gradient specification HPLC gradient at 254 nm - H. Peak.....0-0.002 AU HPLC gradient at 254 nm - Drift.....0-0.010 AU Fluorescence at 254 nm (as quinine).....0-0.5 ppb Fluorescence at 365 nm (as quinine).....0-0.5 ppb Transmission at 210 nm.....25-100 % at 230 nm.....85-100 % at 254 nm.....99-100 % Al.....0-30 ppb Ca.....0-100 ppb Fe.....0-50 ppb K.....0-100 ppb Mg.....0-30 ppb Na.....0-100 ppb Microfiltered through 0.1 µm/bottled under inert gas	

Code	Product	Unit
SO-9368-B010	Water for LC-MS Optigrade™	1 L
SO-9368-B025	Water for LC-MS Optigrade®	2.5 L
	CAS number 7732-18-5	
	H ₂ O	
	Fluorescence (as quinine at 450 nm) .. 1x10 ⁻⁷ g max.	
	Non-volatile matter..... 1 mg/L max.	
	pH 5.0 - 8.0	
	Filtered through 0.2 µm	
	Ca 0.1 ppm max.	
	K 0.1 ppm max.	
	Mg 0.1 ppm max.	
	Na 0.1 ppm max.	
	Transmission	
	at 200 nm - 400 nm..... 99 % min.	

Solvent mixtures

Code	Product	Unit
SO-9534-B040	Mixture cyclohexane/ethyl acetate 1:1 Picograde® for residue analysis	4 L
SO-9534-C011	Mixture cyclohexane/ethyl acetate 1:1 Picograde® for residue analysis (Cyclotainer®)	10 L
SO-9534-C201	Mixture cyclohexane/ethyl acetate 1:1 Picograde® for residue analysis	200 L
	Specification	
	GC/ECD	
	In the GC-ECD chromatogram there are no interfering single signals in the retention time interval between 1,4-dichlorobenzene and decachlorobiphenyl, by a 500-fold concentration greater than that, given by 10 µg/mL heptachlor-epoxide.	
	GC/FID	
	In the GC-FID chromatogram there are no interfering single signals in the retention time interval between n-octane (C ₈) and n-tetracontane (C ₄₀), by a 500-fold concentration greater than that, given by 50 ng/mL n-undecane (C ₁₁).	