



Material	85800.320
Material description	Methanol
Grade	HiPerSolv CHROMANORM for HPLC - ULTRA LC-MS - suitable for LC-MS/UPLC/UHPLC/Ultra HPLC instruments
Lot	161194016
Expires end of	09/2019
CAS Number	67-56-1
Molecular formula	H3COH
Molecular mass	32,04

Characteristics	Specifications	Measured values
Assay (GC)	Min. 99,9 %	100,0 %
Acidity	Max. 0,0002 meq/g	Max. 0,0002 meq/g
Alkalinity	Max. 0,0002 meq/g	Max. 0,0002 meq/g
Boiling point	64 --> 65 °C	64 °C
Colouration	Max. 10 APHA	Max. 10 APHA
Density (20/20)	0,791 --> 0,793	0,793
Evaporation residue	Max. 1 ppm	< 1 ppm
Water	Max. 0,02 %	Max. 0,02 %
Al (Aluminium)	Max. 20 ppb	Max. 20 ppb
Ag (Silver)	Max. 100 ppb	Max. 100 ppb
Ba (Barium)	Max. 100 ppb	Max. 100 ppb
Ca (Calcium)	Max. 200 ppb	Max. 200 ppb
Cd (Cadmium)	Max. 20 ppb	Max. 20 ppb
Co (Cobalt)	Max. 20 ppb	Max. 20 ppb
Cu (Copper)	Max. 10 ppb	Max. 10 ppb
Fe (Iron)	Max. 50 ppb	Max. 50 ppb
K (Potassium)	Max. 50 ppb	Max. 50 ppb
Mg (Magnesium)	Max. 50 ppb	Max. 50 ppb
Mn (Manganese)	Max. 100 ppb	Max. 100 ppb
Na (Sodium)	Max. 200 ppb	Max. 200 ppb
Ni (Nickel)	Max. 100 ppb	Max. 100 ppb
Pb (Lead)	Max. 20 ppb	Max. 20 ppb
Zn (Zinc)	Max. 100 ppb	Max. 100 ppb
Gradient (220 nm)	Max. 3 mAU	Max. 3 mAU
Gradient (235 nm)	Max. 2 mAU	Max. 2 mAU
Gradient (254 nm)	Max. 1 mAU	Max. 1 mAU
Transmittance (210 nm)	Min. 45 %	53 %
Transmittance (220 nm)	Min. 65 %	76 %

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Characteristics	Specifications	Measured values
Transmittance (230 nm)	Min. 85 %	89 %
Transmittance (235 nm)	Min. 90 %	93 %
Transmittance (240 nm)	Min. 95 %	Min. 95 %
Transmittance (250 nm)	Min. 95 %	98 %
Transmittance (260 nm)	Min. 98 %	99 %
Transmittance (280-400 nm)	Min. 98 %	Min. 98 %
Absorbance (210 nm)	Max. 0,347	0,280
Absorbance (220 nm)	Max. 0,188	0,119
Absorbance (225 nm)	Max. 0,155	0,079
Absorbance (230 nm)	Max. 0,071	0,052
Absorbance (240 nm)	Max. 0,023	0,022
Absorbance (250 nm)	Max. 0,023	0,011
Absorbance (260 nm)	Max. 0,009	0,007
Absorbance (280-400 nm)	Max. 0,009	Max. 0,009
Fluorescence (as quinine) (254 nm)	Max. 1 ppb	Max. 1 ppb
Fluorescence (as quinine) (365 nm)	Max. 0,5 ppb	Max. 0,5 ppb
MS-ESI+ (as Reserpine)	Max. 2 ppb	Max. 2 ppb
MS-APCI+ (as Reserpine)	Max. 2 ppb	Max. 2 ppb
MS-ESI- (as 4-Nitrophenol)	Max. 20 ppb	Max. 20 ppb
MS-APCI- (as 4-Nitrophenol)	Max. 20 ppb	Max. 20 ppb
Conforms Ph.Eur. R1 1053201	Passes test	Passes test
Conforms Ph.Eur. R2 1053202	Passes test	Passes test
Conforms to ACS	Passes test	Passes test
Filtered at 0.2 µm	Confirmed	Confirmed

Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

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