

Material	85800.320
Material description	Methanol
Grade	HiPerSolv CHROMANORM for HPLC ULTRA LC-MS grade - suitable for LC-MS/UPLC/UHPLC/Ultra HPLC instruments
Lot	210115C009
Expires end of	2024-Jan-15
CAS Number	67-56-1
Molecular formula	H ₃ COH
Molecular mass	32,04

Characteristics	Specifications	Measured values
Assay (GC)	≥ 99,9 %	100,0 %
Appearance	Clear colourless liquid	Clear colourless liquid
Carbonyl compounds	Passes test	Passes test
Identification	Passes test	Passes test
Solubility in water	Passes test	Passes test
Substances darkened by sulphuric acid	Passes test	Passes test
Substances reducing permanganate	Passes test	Passes test
Acidity	≤ 0,0002 meq/g	≤ 0,0002 meq/g
Alkalinity	≤ 0,0002 meq/g	≤ 0,0002 meq/g
Boiling point	64 - 65 °C	64 °C
Colouration	≤ 10 APHA	≤ 10 APHA
Density (20/20)	0,791 - 0,793	0,793
Evaporation residue	≤ 1 ppm	≤ 1 ppm
Water	≤ 0,02 %	0,01 %
Ag (Silver)	≤ 100 ppb	≤ 100 ppb
As (Arsenic)	≤ 20 ppb	≤ 20 ppb
Ba (Barium)	≤ 100 ppb	≤ 100 ppb
Ca (Calcium)	≤ 200 ppb	≤ 200 ppb
Cd (Cadmium)	≤ 20 ppb	≤ 20 ppb
Co (Cobalt)	≤ 20 ppb	≤ 20 ppb
Cr (Chromium)	≤ 20 ppb	≤ 20 ppb
Cu (Copper)	≤ 10 ppb	≤ 10 ppb
Fe (Iron)	≤ 50 ppb	≤ 50 ppb
K (Potassium)	≤ 50 ppb	≤ 50 ppb
Mg (Magnesium)	≤ 50 ppb	≤ 50 ppb
Mn (Manganese)	≤ 100 ppb	≤ 100 ppb
Mo (Molybdenum)	≤ 20 ppb	≤ 20 ppb
Na (Sodium)	≤ 200 ppb	≤ 200 ppb

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Characteristics	Specifications	Measured values
Ni (Nickel)	≤ 100 ppb	≤ 100 ppb
Pb (Lead)	≤ 20 ppb	≤ 20 ppb
V (Vanadium)	≤ 20 ppb	≤ 20 ppb
Zn (Zinc)	≤ 100 ppb	≤ 100 ppb
Gradient (220 nm)	≤ 3 mAU	≤ 3 mAU
Gradient (235 nm)	≤ 2 mAU	≤ 2 mAU
Gradient (254 nm)	≤ 1 mAU	≤ 1 mAU
Transmittance (210 nm)	≥ 45 %	47 %
Transmittance (220 nm)	≥ 65 %	72 %
Transmittance (225 nm)	≥ 70 %	98 %
Transmittance (230 nm)	≥ 85 %	87 %
Transmittance (235 nm)	≥ 90 %	91 %
Transmittance (240 nm)	≥ 95 %	≥ 95 %
Transmittance (250 nm)	≥ 95 %	98 %
Transmittance (260 nm)	≥ 98 %	99 %
Transmittance (280-400 nm)	≥ 98 %	≥ 98 %
Absorbance (210 nm)	≤ 0,347	0,325
Absorbance (220 nm)	≤ 0,188	0,148
Absorbance (225 nm)	≤ 0,155	0,098
Absorbance (230 nm)	≤ 0,071	0,063
Absorbance (235 nm)	≤ 0,046	0,039
Absorbance (240 nm)	≤ 0,023	≤ 0,023
Absorbance (250 nm)	≤ 0,023	0,009
Absorbance (260 nm)	≤ 0,009	0,003
Absorbance (280-400 nm)	≤ 0,009	≤ 0,009
Fluorescence (as quinine) (254 nm)	≤ 1 ppb	≤ 1 ppb
Fluorescence (as quinine) (365 nm)	≤ 0.5 ppb	≤ 0.5 ppb
MS-ESI+ (as Reserpine)	≤ 50 ppb	≤ 50 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 through 0.2 µm	Confirmed	Confirmed

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Signature

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

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

Signed on behalf of VWR International
QC Department, Plant Gliwice, Poland

