



Material	BDH85800.100E
Material description	Methanol
Grade	HiPerSolv CHROMANORM for HPLC - ULTRA LC-MS - suitable for LC-MS/UPLC/UHPLC/Ultra HPLC instruments
CAS Number	67-56-1
Molecular formula	H ₃ COH
Molecular mass	32.04

Characteristics	Specifications
Assay (GC)	≥ 99.9 %
Appearance	Clear colourless liquid
Carbonyl compounds	Passes test
Identification	Passes test
Solubility in water	Passes test
Substances darkened by sulphuric acid	Passes test
Substances reducing permanganate	Passes test
Acidity	≤ 0.0002 meq/g
Alkalinity	≤ 0.0002 meq/g
Boiling point	64 - 65 °C
Colouration	≤ 10 APHA
Density (20/20)	0.791 - 0.793
Evaporation residue	≤ 1 ppm
Water	≤ 0.02 %
Ag (Silver)	≤ 100 ppb
As (Arsenic)	≤ 20 ppb
Ba (Barium)	≤ 100 ppb
Ca (Calcium)	≤ 200 ppb
Cd (Cadmium)	≤ 20 ppb
Co (Cobalt)	≤ 20 ppb
Cr (Chromium)	≤ 20 ppb
Cu (Copper)	≤ 10 ppb
Fe (Iron)	≤ 50 ppb
K (Potassium)	≤ 50 ppb
Mg (Magnesium)	≤ 50 ppb
Mn (Manganese)	≤ 100 ppb
Mo (Molybdenum)	≤ 20 ppb
Na (Sodium)	≤ 200 ppb

>>> Continued on page 2 >>>



Characteristics	Specifications
Ni (Nickel)	≤ 100 ppb
Pb (Lead)	≤ 20 ppb
V (Vanadium)	≤ 20 ppb
Zn (Zinc)	≤ 100 ppb
Gradient (220 nm)	≤ 3 mAU
Gradient (235 nm)	≤ 2 mAU
Gradient (254 nm)	≤ 1 mAU
Transmittance (210 nm)	≥ 45 %
Transmittance (220 nm)	≥ 65 %
Transmittance (225 nm)	≥ 70 %
Transmittance (230 nm)	≥ 85 %
Transmittance (235 nm)	≥ 90 %
Transmittance (240 nm)	≥ 95 %
Transmittance (250 nm)	≥ 95 %
Transmittance (260 nm)	≥ 98 %
Transmittance (280-400 nm)	≥ 98 %
Absorbance (210 nm)	≤ 0.347
Absorbance (220 nm)	≤ 0.188
Absorbance (225 nm)	≤ 0.155
Absorbance (230 nm)	≤ 0.071
Absorbance (235 nm)	≤ 0.046
Absorbance (240 nm)	≤ 0.023
Absorbance (250 nm)	≤ 0.023
Absorbance (260 nm)	≤ 0.009
Absorbance (280-400 nm)	≤ 0.009
Fluorescence (as quinine) (254 nm)	≤ 1 ppb
Fluorescence (as quinine) (365 nm)	≤ 0.5 ppb
MS-ESI+ (as Reserpine)	≤ 50 ppb
Conforms Ph.Eur. R1 1053201	Passes test
Conforms Ph.Eur. R2 1053202	Passes test
Conforms to ACS	Passes test
Filtered through 0.2 µm	Confirmed

>>> Continued on page 3 >>>

Signature

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

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

Isabelle Habay, Head of Laboratory - Briare
VWR International S.A.S.; Z.I. de Vaugereau; FR-45250
Briare; France