

Material	BDH83640.400
Material description	Acetonitrile
Grade	HiPerSolv CHROMANORM for HPLC LC-MS grade - suitable for UPLC/UHPLC instruments
CAS Number	75-05-8
Molecular formula	H ₃ CCN
Molecular mass	41.05

Characteristics	Specifications
Assay (on anhydrous substance)	≥ 99.9 %
Solution (100 g/l)	Passes test
Acidity	≤ 0.0001 meq/g
Alkalinity	≤ 0.0002 meq/g
Boiling point	80 - 82 °C
Colouration	≤ 10 APHA
Density (20/4)	0.781 - 0.784
Density (20/20)	0.782 - 0.785
Refractive index (20°C)	1.343 - 1.345
Evaporation residue	≤ 2 ppm
Water	≤ 0.02 %
Al (Aluminium)	≤ 50 ppb
Ca (Calcium)	≤ 50 ppb
Fe (Iron)	≤ 50 ppb
K (Potassium)	≤ 50 ppb
Mg (Magnesium)	≤ 10 ppb
Na (Sodium)	≤ 100 ppb
Absorbance (191 nm)	≤ 0.5
Absorbance (200 nm)	≤ 0.1
Absorbance (210 nm)	≤ 0.02
Absorbance (215 nm)	≤ 0.01
Absorbance (220 nm)	≤ 0.01
Absorbance (230 nm)	≤ 0.005
Absorbance (from 240 nm)	≤ 0.005
Transmittance (191 nm)	≥ 30 %
Transmittance (195 nm)	≥ 80 %
Transmittance (200 nm)	≥ 95 %
Transmittance (210 nm)	≥ 96 %

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For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user.



Characteristics	Specifications
Transmittance (215 nm)	≥ 98 %
Transmittance (220 nm)	≥ 98 %
Transmittance (230 nm)	≥ 99 %
Transmittance (from 240 nm)	≥ 99 %
Fluorescence (as quinine) (254/450 nm)	≤ 1 ppb
Gradient (210 nm)	≤ 3 mAU
Gradient (254 nm)	≤ 1 mAU
MS-ESI+ (as Reserpine)	≤ 2 ppb
MS-APCI+ (as Reserpine)	≤ 2 ppb
MS-ESI- (as 4-Nitrophenol)	≤ 20 ppb
MS-APCI- (as 4-Nitrophenol)	≤ 20 ppb
Conforms to Reag. Ph.Eur.	Passes test

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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