

Material	BDH83640.050
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
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Assay (on anhydrous substance)	Min. 99.9 %
Solution (100 g/l)	Passes test
Acidity	Max. 0.0001 meq/g
Alkalinity	Max. 0.0002 meq/g
Boiling point	80 → 82 °C
Colouration	Max. 10 APHA
Density (20/4)	0.781 → 0.784
Density (20/20)	0.782 → 0.785
n 20/D	1.343 → 1.345
Evaporation residue	Max. 2 ppm
Water	Max. 0.02 %
Al (Aluminium)	Max. 50 ppb
Ca (Calcium)	Max. 50 ppb
Fe (Iron)	Max. 50 ppb
K (Potassium)	Max. 50 ppb
Mg (Magnesium)	Max. 10 ppb
Na (Sodium)	Max. 100 ppb
Absorbance (191 nm)	Max. 0.5
Absorbance (200 nm)	Max. 0.1
Absorbance (210 nm)	Max. 0.02
Absorbance (215 nm)	Max. 0.01
Absorbance (220 nm)	Max. 0.01
Absorbance (230 nm)	Max. 0.005
Absorbance (from 240 nm)	Max. 0.005
Transmittance (191 nm)	Min. 30 %
Transmittance (195 nm)	Min. 80 %
Transmittance (200 nm)	Min. 95 %
Transmittance (210 nm)	Min. 96 %

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Characteristics	Specifications
Transmittance (215 nm)	Min. 98 %
Transmittance (220 nm)	Min. 98 %
Transmittance (230 nm)	Min. 99 %
Transmittance (from 240 nm)	Min. 99 %
Fluorescence (as quinine) (254/450 nm)	Max. 1 ppb
Gradient (210 nm)	Max. 3 mAU
Gradient (254 nm)	Max. 1 mAU
MS-ESI+ (as Reserpine)	Max. 2 ppb
MS-APCI+ (as Reserpine)	Max. 2 ppb
MS-ESI- (as 4-Nitrophenol)	Max. 20 ppb
MS-APCI- (as 4-Nitrophenol)	Max. 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.

Emilio Cruz
QC Manager, Chemical Manufacturing - Chester