



Material	BDH83640.201
Material description	Acetonitrile
Grade	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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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.

Emilio Cruz
QC Manager, Chemical Manufacturing - Chester