

Material	83640.320
Material description	Acetonitrile
Grade	HiPerSolv CHROMANORM for HPLC LC-MS grade - suitable for UPLC/UHPLC instruments
Lot	16D121187
Expires end of	04/2019
CAS Number	75-05-8
Molecular formula	CH3CN
Molecular mass	41,05

Characteristics	Specifications	Measured values
Assay (on anhydrous substance)	Min. 99,9 %	100,0 %
Solution (100 g/l)	Passes test	Passes test
Acidity	Max. 0,0001 meq/g	Max. 0,0001 meq/g
Alkalinity	Max. 0,0002 meq/g	Max. 0,0002 meq/g
Boiling point	80 --> 82 °C	81 °C
Colouration	Max. 10 APHA	Max. 10 APHA
Density (20/4)	0,781 --> 0,784	0,782
Density (20/20)	0,782 --> 0,785	0,783
n 20/D	1,343 --> 1,345	1,344
Evaporation residue	Max. 2 ppm	< 1 ppm
Water	Max. 0,02 %	< 0,01 %
Al (Aluminium)	Max. 50 ppb	Max. 50 ppb
Ca (Calcium)	Max. 50 ppb	Max. 50 ppb
Fe (Iron)	Max. 50 ppb	Max. 50 ppb
K (Potassium)	Max. 50 ppb	Max. 50 ppb
Mg (Magnesium)	Max. 10 ppb	Max. 10 ppb
Na (Sodium)	Max. 100 ppb	Max. 100 ppb
Transmittance (191 nm)	Min. 30 %	50 %
Transmittance (195 nm)	Min. 80 %	90 %
Transmittance (200 nm)	Min. 95 %	99 %
Transmittance (210 nm)	Min. 96 %	99 %
Transmittance (215 nm)	Min. 98 %	99 %
Transmittance (220 nm)	Min. 98 %	99 %
Transmittance (230 nm)	Min. 99 %	100 %
Transmittance (from 240 nm)	Min. 99 %	Min. 99 %
Fluorescence (as quinine) (254/450 nm)	Max. 1 ppb	Max. 1 ppb
Gradient grade (210 nm)	Max. 3 mAU	Max. 3 mAU
Gradient grade (254 nm)	Max. 1 mAU	Max. 1 mAU

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Characteristics	Specifications	Measured values
Mode: ESI 200 µl pos APCI 200 µl pos	Max. 2 ppb	Max. 2 ppb
Mode: ESI 200 µl neg APCI 200 µl	Max. 20 ppb	Max. 20 ppb
Conforms to Reag. Ph.Eur.	Passes test	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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