

Material	83639.320
Material description	Acetonitrile
Grade	HiPerSolv CHROMANORM for HPLC - SUPER GRADIENT Reagent Ph.Eur., Reagent USP-NF, ACS - suitable for UPLC/UHPLC instruments water < 30 ppm
Lot	22A254035
Expires end of	2025-Jan-21
CAS Number	75-05-8
Molecular formula	H ₃ CCN
Molecular mass	41.05

Characteristics	Specifications	Measured values
Assay	≥ 99.95 %	99.99 %
Solution (100 g/l)	Neutral	Neutral
Acidity	≤ 0.0008 meq/g	0.0001 meq/g
Alkalinity	≤ 0.0006 meq/g	0.0002 meq/g
Boiling point	80 - 82 °C	81 °C
Colouration	≤ 10 APHA	≤ 10 APHA
Density (20/4)	0.781 - 0.784	0.783
Density (20/20)	0.782 - 0.785	0.784
Refractive index (20°C)	1.343 - 1.345	1.343
Evaporation residue	≤ 2 ppm	1 ppm
Water	≤ 30 ppm	7 ppm
Absorbance (190 nm)	≤ 1	< 1
Absorbance (195 nm)	≤ 0.1	≤ 0.1
Absorbance (200 nm)	≤ 0.02	≤ 0.02
Absorbance (210 nm)	≤ 0.02	0.01
Absorbance (220 nm)	≤ 0.01	≤ 0.01
Absorbance (230 nm)	≤ 0.01	≤ 0.01
Absorbance (240 nm)	≤ 0.005	≤ 0.005
Absorbance (250 nm)	≤ 0.005	0.004
Absorbance (240-420 nm)	≤ 0.005	≤ 0.005
Transmittance (190 nm)	≥ 10 %	37 %
Transmittance (195 nm)	≥ 80 %	86 %
Transmittance (200 nm)	≥ 95 %	96 %
Transmittance (210 nm)	≥ 96 %	98 %
Transmittance (220 nm)	≥ 97 %	98 %
Transmittance (230 nm)	≥ 98 %	99 %
Transmittance (240 nm)	≥ 99 %	≥ 99 %
Transmittance (250 nm)	≥ 99 %	≥ 99 %

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Characteristics	Specifications	Measured values
Transmittance (240-420 nm)	≥ 99 %	≥ 99 %
Fluorescence (as quinine) (254 nm)	≤ 1 ppb	≤ 1 ppb
Gradient (210 nm)	≤ 3 mAU	< 1 mAU
Gradient (254 nm)	≤ 1 mAU	< 1 mAU
Conforms to ACS	Passes test	Passes test
Conforms to ACS (HPLC/UV)	Passes test	Passes test
Conforms to Reag. Ph.Eur.	Passes test	Passes test
Conforms to Reag. USP-NF	Passes test	Passes test
Filtered through 0.2 µm	Confirmed	Confirmed
Packaged under nitrogen	Confirmed	Confirmed

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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