

# Technical Datasheet

**Article no.: 2633**

**Acetonitrile Gradient for UHPLC-MS (min. 99.99 %)**

CH<sub>3</sub>CN

For laboratory use.

CAS-No: 75-05-8  
Appearance/condition: Clear, colourless liquid  
Melting point: -45 – -46 °C  
Boiling point: 80 – 82.5 °C  
Density (20 °C): 0.78 g/ml  
Molar mass: 41.05 g/mol

Parameter	Value
Assay (GC, on dry base)	min. 99.99 %
Water (KF)	max. 100 ppm
Residue on evaporation	max. 1 ppm
LC-MS ESI <sup>+</sup> suitability test (reserpine)	max. 30 ppb
UV Absorbance at 191 nm	max. 0.4 AU
UV Absorbance at 200 nm	max. 0.03 AU
UV Absorbance at 220 nm	max. 0.01 AU
UV Absorbance at 254 nm	max. 0.005 AU
UV Transmittance at 191 nm	min. 40 %
UV Transmittance at 195 nm	min 80 %
UV Transmittance at 200 nm	min. 95 %
UV Transmittance at 215 nm	min. 97 %
UV Transmittance at 230 nm	min. 99 %
Gradient baseline drift at 210 nm	max. 6 mAU
Gradient baseline drift at 254 nm	max. 2 mAu

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Parameter	Value
Acidity	max. 0.0003 meq/g
Alcalinity	max. 0.0002 meq/g
Aluminium (Al)	max. 20 ppb
Calcium (Ca)	max. 50 ppb
Iron (Fe)	max. 20 ppb
Potassium (K)	max. 50 ppb
Magnesium (Mg)	max. 20 ppb
Sodium (Na)	max. 100 ppb
Fluorescence (quinine) at 254 nm	max. 1 ppb
Fluorescence (quinine) at 365 nm	max. 0.5 ppb
Fluorescence (quinine) at 450 nm	max. 0.5 ppb
UHPLC gradient peak at 210 nm	max. 0.4 mAU
UHPLC gradient peak at 254 nm	max. 0.2 mAU
Colour (APHA)	max. 5
UV cut off 190 nm	
Filtered through a 0.1 µm membrane.	

Version No. 03/2024-07-23