

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Acetonitrile - for UHPLC, for mass spectrometry

Product Number: 900667
Batch Number: SHBM2982
 Brand: SIAL
 CAS Number: 75-05-8
 Formula: C₂H₃N
 Formula Weight: 41.05 g/mol
 Quality Release Date: 20 MAY 2020
 Expiration Date: MAY 2022

CH₃CN

Test	Specification	Result
Appearance (Clarity)	Clear	Clear
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
UV Absorbance 230nm	≤ 0.004	0.003
UV Absorbance 200nm	≤ 0.022	0.008
UV Absorbance 195nm	≤ 0.090	0.049
Purity (GC)	≥ 99.92 %	100.00 %
Benzene	≤ 0.09 %	< 0.01 %
Propionitrile	≤ 0.10 %	< 0.01 %
Residue on Evaporation	≤ 0.0002 %	< 0.0001 %
Water (by Karl Fischer)	≤ 0.01 %	< 0.01 %
Fluorescence 254nm as Quinine	≤ 0.5 ppb	< 0.1 ppb
Fluorescence 365nm as Quinine	≤ 0.5 ppb	< 0.1 ppb
HPLC Absorbance 210 nm	≤ 0.9 mAU	0.2 mAU
HPLC Absorbance 254 nm	≤ 0.2 mAU	0.1 mAU
Baseline Drift 210nm	≤ 10 mAU	4 mAU
Alkalinity	≤ 0.0001 %	< 0.0001 %
Free Acid (as Acetic Acid)	≤ 0.001 %	< 0.001 %
LCMS Suitability Confirmed	Suitable	Suitable

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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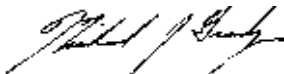
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Test	Specification	Result
Trace Metal Analysis	Complete	Complete
Aluminum (Al)	≤ 20 ppb	1 ppb
Cadmium (Cd)	≤ 20 ppb	< 1 ppb
Calcium (Ca)	≤ 20 ppb	6 ppb
Chromium (Cr)	≤ 15 ppb	< 1 ppb
Cobalt (Co)	≤ 15 ppb	< 1 ppb
Copper (Cu)	≤ 10 ppb	< 1 ppb
Iron (Fe)	≤ 20 ppb	1 ppb
Magnesium (Mg)	≤ 20 ppb	2 ppb
Manganese (Mn)	≤ 20 ppb	< 1 ppb
Nickel (Ni)	≤ 20 ppb	< 1 ppb
Potassium (K)	≤ 20 ppb	7 ppb
Silver (Ag)	≤ 20 ppb	< 1 ppb
Sodium (Na)	≤ 20 ppb	1 ppb
Tin (Sn)	≤ 20 ppb	< 1 ppb
Zirconium (Zr)	≤ 20 ppb	< 1 ppb
733466 only		
Expiration Date Period	-----	-----
2 years		



Michael Grady, Manager
 Quality Control
 Sheboygan Falls, WI US

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