

3050 Spruce Street, Saint Louis, MO 63103, USA

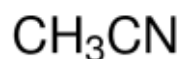
Website: www.sigmaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:
Acetonitrile - for UHPLC, for mass spectrometry

Product Number: 900667

CAS Number: 75-05-8



Formula: C₂H₃N

Formula Weight: 41.05 g/mol

TEST	Specification
Appearance (Clarity)	Clear
Appearance (Color)	Colorless
Appearance (Form)	Liquid
Infrared spectrum	Conforms to Structure
UV Absorbance 230nm	≤ 0.004
UV Absorbance 200nm	≤ 0.022
UV Absorbance 195nm	≤ 0.090
Water (by Karl Fischer)	≤ 0.01 %
Residue on Evaporation	≤ 0.0002 %
Purity (GC)	≥ 99.92 %
Benzene	≤ 0.09 %
Propionitrile	≤ 0.10 %
Fluorescence 254nm as Quinine	≤ 0.5 ppb
Fluorescence 365nm as Quinine	≤ 0.5 ppb
HPLC Absorbance 210 nm	≤ 0.9 mAU
HPLC Absorbance 254 nm	≤ 0.2 mAU
Baseline Drift 210nm	≤ 10 mAU
LCMS	Suitable
Suitability Confirmed	
Alkalinity as NH ₃	≤ 0.0001 %

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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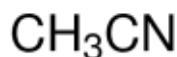
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TEST	Specification
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Free Acid	≤ 0.001 %
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as Acetic Acid

Trace Metal Analysis	Complete
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Aluminum (Al)	≤ 20 ppb
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Cadmium (Cd)	≤ 20 ppb
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Calcium (Ca)	≤ 20 ppb
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Chromium (Cr)	≤ 15 ppb
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Cobalt (Co)	≤ 15 ppb
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Copper (Cu)	≤ 10 ppb
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Iron (Fe)	≤ 20 ppb
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Magnesium (Mg)	≤ 20 ppb
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Manganese (Mn)	≤ 20 ppb
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Nickel (Ni)	≤ 20 ppb
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Potassium (K)	≤ 20 ppb
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Silver (Ag)	≤ 20 ppb
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Sodium (Na)	≤ 20 ppb
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Tin (Sn)	≤ 20 ppb
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Zinc (Zn)	≤ 20 ppb
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Expiration Date Period	-----
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2 years

Specification: PRD.0.ZQ5.10000079407

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