



1000 TEDIA WAY
FAIRFIELD, OHIO, 45014, USA
SALES@TEDIA.COM

SPECIFICATIONS

Name: Acetonitrile
Catalog No: AL1129
Grade: LC Mass Spec

<u>Test Name</u>	<u>Limits</u>
Dichlorotoluene	
Clear colorless liquid free of suspended matter	Passes Test
Assay (by GC-FID)	
(Corrected for Water)	Min 99.90 %
Color	Max 5 APHA
Carbonyl compounds	
(as Acetone)	Max 100 ppm
Fluorescence at emission maximum for Impurities	
(as Quinine sulfate)	Max 0.3 ppb
Fluorescence at emission maximum for Impurities at	
254 nm	Max 0.3 ppb
365 nm	Max 0.3 ppb
GC-ECD Responsive residue (single peak)	
(as Heptachlorepoxyde)	Max 5 ppt
GC-FID Responsive residue (single peak)	
(as 2-Octanol)	Max 5 ppb
Identification by	
IR Spectroscopy	Passes Test
Baseline Drift at	
210 nm	Max 12 mAU
LC gradient elution suitability at	
210 nm	Max 3 mAU
254 nm	Max 0.2 mAU
LC-MS Positive mode	
(as Reserpine)	Max 50 ppb
LC-MS Negative mode	
(as Nitrophenol)	Max 50 ppb
Odor	Passes Test
Refractive Index at	
20°C	1.3434-1.3446
25°C	1.3405-1.3425
Residue after Evaporation	Max 1 ppm
Titration Acid	Max 0.001 meq/g
Titration Base	Max 0.0001 meq/g
Water	
(by KF coulometry)	Max 0.010 %
UV cut-off	Max 190 nm

This product is manufactured by Tedia Company, LLC certified to ISO 9001:2015 (Quality Management System) by P.J.R.



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Optical Absorbance at

190 nm	Max 1.000 AU
195 nm	Max 0.097 AU
200 nm	Max 0.022 AU
205 nm	Max 0.050 AU
210 nm	Max 0.012 AU
220 nm	Max 0.020 AU
225 nm	Max 0.010 AU
230 nm	Max 0.004 AU
235 nm	Max 0.005 AU
250 nm	Max 0.005 AU
254 nm	Max 0.005 AU
270 nm	Max 0.005 AU
280 nm	Max 0.010 AU
300 nm	Max 0.005 AU
350 nm	Max 0.005 AU
400 nm	Max 0.005 AU

Trace Metals

Passes Test

Aluminum (Al)	Max 0.5 ppm
Barium (Ba)	Max 0.1 ppm
Cadmium (Cd)	Max 0.05 ppm
Calcium (Ca)	Max 0.1 ppm
Chromium (Cr)	Max 0.02 ppm
Cobalt (Co)	Max 0.02 ppm
Copper (Cu)	Max 0.01 ppm
Iron (Fe)	Max 0.1 ppm
Lead (Pb)	Max 0.02 ppm
Magnesium (Mg)	Max 0.1 ppm
Manganese (Mn)	Max 0.01 ppm
Nickel (Ni)	Max 0.02 ppm
Potassium (K)	Max 0.1 ppm
Silver (Ag)	Max 0.1 ppm
Sodium (Na)	Max 0.1 ppm
Tin (Sn)	Max 0.1 ppm
Zinc (Zn)	Max 0.1 ppm

Comments:

Metal results are at time of packaging

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and may increase from extraction from the container.

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