

**ChemPure\* Brand  
Chemicals**

April 1, 2022

**CERTIFICATE OF ANALYSIS** ...Pure Quality

Product Name: **Acetonitrile**

Application: UHPLC-MS, LC-MS, HPLC, Trace, ACS

Product Number: CP-C9725  
CAS Number: 75-05-8  
Lot Number: SHBP5161CP  
Manufactured Date: April 1, 2022

Formula: CH<sub>3</sub>CN  
Formula Weight: 41.05 g/mol  
Density: 0.786 g/cm<sup>3</sup>  
Retest Date: March, 2025  
Storage: **RT, Red-Flammable**  
DOT/RID/ADR UN 1648 3 / PGII

EC Number: 200-835-2

**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	<0.004
UV Absorbance 200nm	< 0.022	0.019
UV Absorbance 195nm	< 0.090	0.061
Water (by Karl Fischer)	< 0.01 %	< 0.01 %
Residue on Evaporation	< 0.0002 %	< 0.0001 %
Purity (GC)	> 99.92 %	99.99 %
Benzene	< 0.09 %	< 0.01 %
Propionitrile	< 0.10 %	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	0.3 mAU
HPLC Absorbance 254 nm	< 0.2 mAU	0.1 mAU
Baseline Drift 210nm	< 10 mAU	6 mAU
LCMS: Suitability Confirmed	Suitable	Suitable
Alkalinity as NH <sub>3</sub>	< 0.0001 %	< 0.0001 %
Free Acid as Acetic Acid	< 0.001 %	< 0.001 %
Trace Metal Analysis	Complete	Complete
Chromium (Cr)	< 15 ppb	< 1 ppb
Copper (Cu)	< 10 ppb	< 1 ppb
Cobalt (Co)	< 15 ppb	< 1 ppb
Aluminum (Al)	< 20 ppb	1 ppb
Cadmium (Cd)	< 20 ppb	< 1 ppb
Calcium (Ca)	< 20 ppb	3 ppb
Iron (Fe),	< 20 ppb	1 ppb
Magnesium (Mg)	< 20 ppb	1 ppb
Manganese (Mn)	< 20 ppb	<1 ppb

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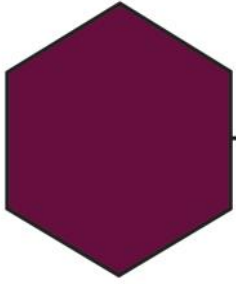
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It is certified that the above copy is a copy of the actual lot analysis from the manufacturer.

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**Test**

**Specification**

**Result**

Nickel (Ni)  
Potassium (K)  
Silver (Ag)  
Sodium (Na)  
Tin (Sn)  
Zirconium (Zr)

< 20 ppb  
< 20 ppb  
< 20 ppb  
< 20 ppb  
< 20 ppb  
< 20 ppb  
< 20 ppb

< 1 ppb  
1 ppb  
<1 ppb  
3 ppb  
< 1 ppb  
< 1 ppb

Expiration Date Period 3 Years

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