

**ChemPure\* Brand  
Chemicals**

May 31, 2022

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

Product Name: **Acetonitrile**

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

Product Number:	CP-C9725	Formula:	CH <sub>3</sub> CN
CAS Number:	75-05-8	Formula Weight:	41.05 g/mol
Lot Number:	SHBP7260	Density:	0.786 g/cm <sup>3</sup>
Manufactured Date:	May 31, 2022	Retest Date:	May, 2025
EC Number:	200-835-2	Storage:	<b>RT, Red-Flammable</b>
		DOT/RID/ADR	UN 1648 3 / PGII

**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	0.017
UV Absorbance 195nm	< 0.090	0.026
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	0.4 mAU
HPLC Absorbance 254 nm	< 0.2 mAU	0.1 mAU
Baseline Drift 210nm	< 10 mAU	7 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

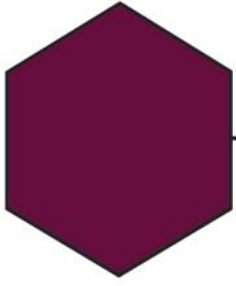
COA: Page 1 of 2

Important: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all inclusive as to the manner and conditions of use, handling, storage, disposal, and other factors that may involve other or additional legal, environmental, safety or performance considerations, and CHEMPURE BRAND CHEMICALS assumes no liability whatsoever for the use of or reliance upon this information. Our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, Local or foreign laws.

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

Jorge L. Villanueva, Ph.D., General Manager

SUPPORT@CHEMPUREBRAND.COM - WWW.CHEMPUREBRAND.COM



**ChemPure\* Brand  
Chemicals**

May 31, 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: SHBP7260  
Manufactured Date: May 31, 2022

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

EC Number: 200-835-2

**Test**

**Specification**

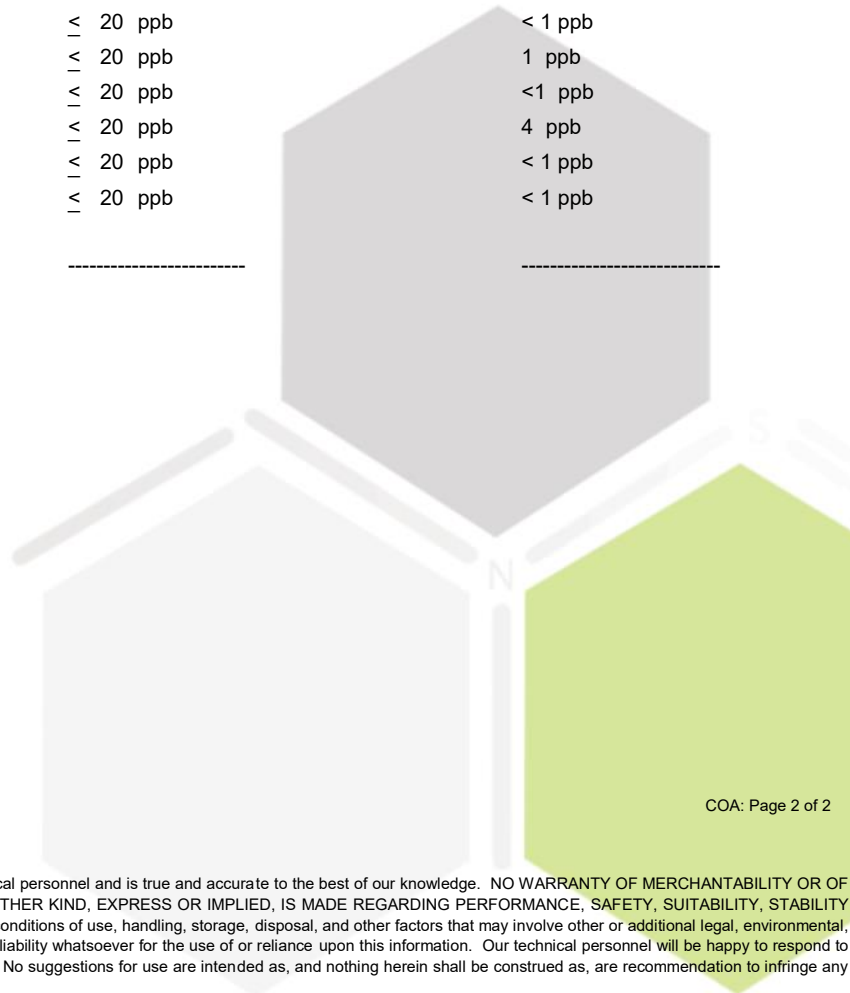
**Result**

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  
4 ppb  
< 1 ppb  
< 1 ppb

Expiration Date Period 3 Years



COA: Page 2 of 2

Important: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all inclusive as to the manner and conditions of use, handling, storage, disposal, and other factors that may involve other or additional legal, environmental, safety or performance considerations, and CHEMPURE BRAND CHEMICALS assumes no liability whatsoever for the use of or reliance upon this information. Our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, are recommendation to infringe any existing patents or to violate any Federal, State, Local or foreign laws.

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

Jorge L. Villanueva, Ph.D., General Manager

SUPPORT@CHEMPUREBRAND.COM - WWW.CHEMPUREBRAND.COM