

**ChemPure* Brand
Chemicals**

July 19, 2021

CERTIFICATE OF ANALYSIS ...Pure Quality

Product Name: **Acetonitrile**

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

Product Number: CP-C9725	Formula: CH ₃ CN
CAS Number: 75-05-8	Formula Weight: 41.05 g/mol
Lot Number: SHBN6622CP	Density: 0.786 g/cm ³
Manufactured Date: July 19, 2021	Retest Date: July, 2023
	Storage: RT, Red-Flammable
EC Number: 200-835-2	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	<0.001
UV Absorbance 200nm	< 0.022	<0.001
UV Absorbance 195nm	< 0.090	0.039
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	8 mAU
LCMS: Suitability Confirmed	Suitable	Suitable
Alkalinity as NH ₃	< 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	2 ppb
Cadmium (Cd)	< 20 ppb	< 1 ppb
Calcium (Ca)	< 20 ppb	1 ppb
Iron (Fe),	< 20 ppb	5 ppb
Magnesium (Mg)	< 20 ppb	6 ppb
Manganese (Mn)	< 20 ppb	1 ppb

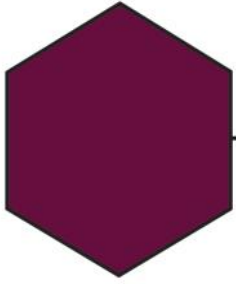
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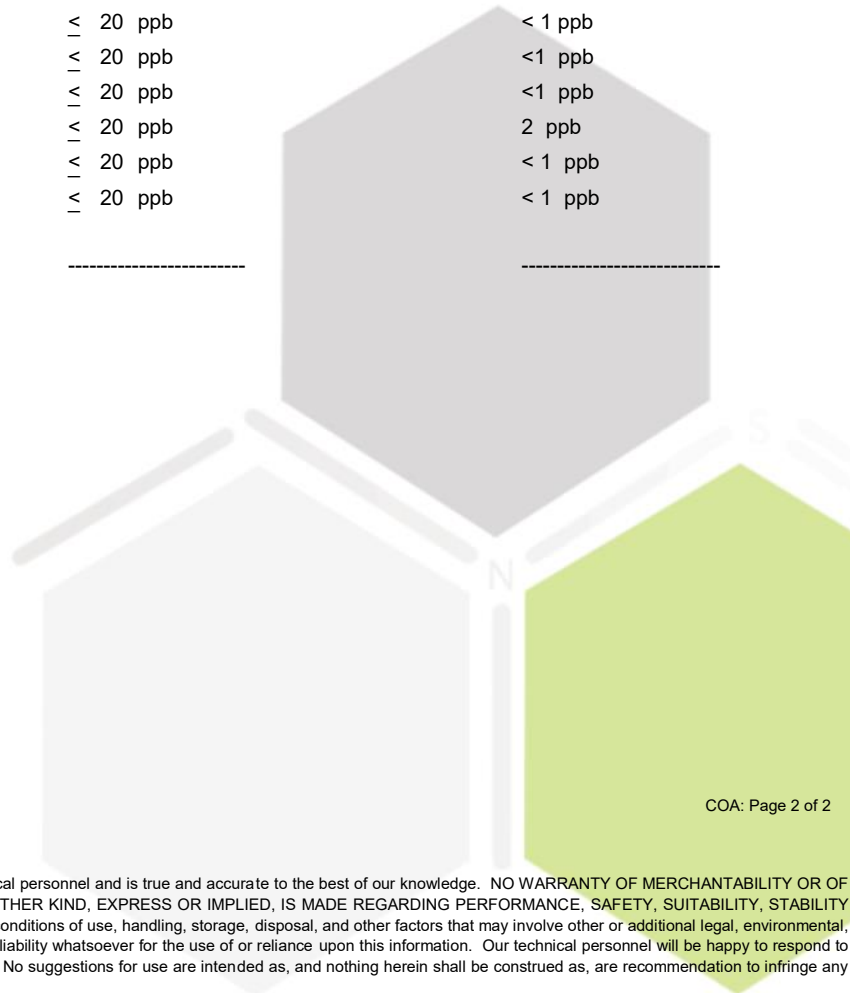
Result

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
2 ppb
< 1 ppb
< 1 ppb

Expiration Date Period 3 Years



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