64683 Einhausen Marie-Curie-StraBe. 3, Germany
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PureSynth®
Research Chemicals

# Certificate of Analysis

Product Name:
**Acetonitrile Pur*Solv* Ultra Plus for LC-MS, tested for UHPLC-MS**

| | |
|---|---|
| Product No.: | PSR49124 |
| Lot No.: | Sample COA |
| Brand: | PureSynth |
| CAS No.: | 75-05-8 |
| Molecular Formula: | $C_2H_3N$ |
| Molecular Weight: | 41.05 g/mol |
| Date of Mfg.: | NA |
| Date of Exp.: | NA |

| Test | Specification | Result |
|---|---|---|
| Appearance | Colorless Liquid | Conforms |
| Assay (By GC) | ≥ 99.9% | 99.99 % |
| Water (by KF) | NMT 0.01 % | 0.005 % |
| Density | 0.779 – 0.783 g/cm$^3$ | 0.781 g/cm$^3$ |
| Free acid (as $CH_3COOH$) | NMT 0.0002 meq/g | < 0.0002 meq/g |
| Identification by IR | Conforms to structure | Conforms to structure |
| Residue on Evaporation | NMT 0.0001 % | < 0.0001 % |
| Aluminium (Al) | NMT 25.0 ppb | < 25.0 ppb |
| Barium (Ba) | NMT 5.0 ppb | < 5.0 ppb |
| Cadmium (Cd) | NMT 5.0 ppb | < 5.0 ppb |
| Calcium (Ca) | NMT 25.0 ppb | < 25.0 ppb |
| Chromium (Cr) | NMT 5.0 ppb | < 5.0 ppb |
| Cobalt (Co) | NMT 5.0 ppb | < 5.0 ppb |
| Copper (Cu) | NMT 5.0 ppb | < 5.0 ppb |
| Iron (Fe) | NMT 5.0 ppb | < 5.0 ppb |
| Lead (Pb) | NMT 5.0 ppb | < 5.0 ppb |
| Magnesium (Mg) | NMT 10.0 ppb | < 10.0 ppb |
| Manganese (Mn) | NMT 5.0 ppb | < 5.0 ppb |
| Nickel (Ni) | NMT 5.0 ppb | < 5.0 ppb |
| Potassium (K) | NMT 10.0 ppb | < 10.0 ppb |
| Silver (Ag) | NMT 5.0 ppb | < 5.0 ppb |
| Sodium (Na) | NMT 50.0 ppb | < 50.0 ppb |
| Tin (Sn) | NMT 5.0 ppb | < 5.0 ppb |
| Zinc (Zn) | NMT 5.0 ppb | < 5.0 ppb |
| Absorbance (@195 nm) | NMT 0.097 AU | < 0.097 AU |
| Absorbance (@200 nm) | NMT 0.022 AU | < 0.022 AU |
| Absorbance (@210 nm) | NMT 0.013 AU | < 0.013 AU |

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.
For queries on this COA, please contact our technical team at technical@pure-synth.com

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| | | |
|---|---|---|
| Absorbance (@220 nm) | NMT 0.009 AU | < 0.009 AU |
| Absorbance (@230 nm) | NMT 0.004 AU | < 0.004 AU |
| UHPLC-gradient peak (254 nm) | NMT 0.002 AU | < 0.002 AU |
| UHPLC-gradient drift (210 nm) | NMT 0.012 AU | < 0.012 AU |
| UHPLC-gradient peak (210 nm) | NMT 0.001 AU | < 0.001 AU |
| Suitability for the UHPLC-MS | Complying | Complying |
| UHPLC-MS test ESI+ (Reserpin) | NMT 5 ppb | < 5 ppb |
| UHPLC-MS test ESI- (Digoxin) | NMT 20 ppb | < 20 ppb |

**Remarks:**

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

**Storage Condition:**

Store at room temperature and keep the container tightly closed

PureSynth Research Chemicals GmbH

*This is electronically-generated copy & is valid without a signature*

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