Methanol CMOS





Material No.: 9073-05 Batch No.: 0000285563 Manufactured Date: 2021/06/15 Retest Date: 2026/06/14 Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|------------------------------------|---------------|--------|
| Assay (CH3OH) (by GC) | >= 99.9 % | 100.0 |
| Color (APHA) | <= 10 | < 5 |
| Acidity (µeq/g) | <= 0.3 | 0.3 |
| Alkalinity (µeq/g) | <= 0.1 | 0.1 |
| Heavy Metals (as Pb) | <= 100 ppb | < 100 |
| Residue after Evaporation | <= 5 ppm | < 1 |
| Water (H2O)(by Karl Fischer titrn) | <= 0.05 % | 0.03 |
| Solubility in H2O | Passes Test | РТ |
| Chloride (Cl) | <= 0.2 ppm | < 0.2 |
| Phosphate (PO4) | <= 0.3 ppm | < 0.3 |
| Sulfate (SO4) | <= 0.5 ppm | < 0.5 |
| Trace Impurities – Aluminum (Al) | <= 50.0 ppb | < 5.0 |
| Trace Impurities – Arsenic (As) | <= 5.0 ppb | < 2.0 |
| Trace Impurities – Antimony (Sb) | <= 5.0 ppb | < 1.0 |
| Trace Impurities – Barium (Ba) | <= 20.0 ppb | < 1.0 |
| Trace Impurities – Boron (B) | <= 10.0 ppb | < 5.0 |
| Trace Impurities – Cadmium (Cd) | <= 20.0 ppb | < 1.0 |
| Trace Impurities – Calcium (Ca) | <= 50.0 ppb | 1.5 |
| Trace Impurities – Chromium (Cr) | <= 20.0 ppb | < 1.0 |
| Trace Impurities – Cobalt (Co) | <= 20.0 ppb | < 1.0 |
| Trace Impurities – Copper (Cu) | <= 10.0 ppb | 4.1 |
| Trace Impurities – Gallium (Ga) | <= 50.0 ppb | < 1.0 |
| Trace Impurities - Germanium (Ge) | <= 50.0 ppb | < 10.0 |
| Trace Impurities - Gold (Au) | <= 20.0 ppb | < 5.0 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

| Test | Specification | Result |
|------------------------------------|---------------|--------|
| race Impurities – Iron (Fe) | <= 50.0 ppb | 1.4 |
| race Impurities – Lead (Pb) | <= 50.0 ppb | < 10.0 |
| race Impurities – Lithium (Li) | <= 50.0 ppb | < 1.0 |
| race Impurities – Magnesium (Mg) | <= 50.0 ppb | < 1.0 |
| race Impurities – Manganese (Mn) | <= 10.0 ppb | < 1.0 |
| race Impurities – Molybdenum (Mo) | <= 300.0 ppb | < 5.0 |
| race Impurities – Nickel (Ni) | <= 10.0 ppb | < 5.0 |
| race Impurities – Potassium (K) | <= 50.0 ppb | < 10.0 |
| race Impurities – Silicon (Si) | <= 50.0 ppb | < 10.0 |
| race Impurities – Silver (Ag) | <= 20.0 ppb | < 1.0 |
| race Impurities – Sodium (Na) | <= 50.0 ppb | < 5.0 |
| race Impurities – Strontium (Sr) | <= 10.0 ppb | < 1.0 |
| race Impurities – Tin (Sn) | <= 50.0 ppb | < 10.0 |
| race Impurities – Titanium (Ti) | <= 20.0 ppb | < 1.0 |
| race Impurities – Vanadium (V) | <= 300.0 ppb | < 1.0 |
| race Impurities – Zinc (Zn) | <= 50.0 ppb | < 1.0 |
| race Impurities – Zirconium (Zr) | <= 300.0 ppb | < 1.0 |
| article Count - 0.5 µm and greater | <= 100 par/ml | 7 |
| article Count - 1.0 µm and greater | <= 8 par/ml | 2 |

For Microelectronic Use

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James Techie

Jamie Ethier Vice President Global Quality

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