

2-Propanol  
CMOS  
(iso-propyl alcohol)



Material No.: 9059-08  
Batch No.: 21K1661037  
Manufactured Date: 2021-11-01  
Retest Date: 2026-10-31  
Revision No.: 0

# Certificate of Analysis

| Test  | Specification | Result      |
|---|---------------|-------------|
| Assay (CH <sub>3</sub> CHOHCH <sub>3</sub> )    | ≥ 99.5 %      | 100.0 %     |
| Color (APHA)                                    | ≤ 10          | < 5         |
| Residue after Evaporation                       | ≤ 4 ppm       | < 1 ppm     |
| Solubility in H <sub>2</sub> O                  | Passes Test   | Passes Test |
| Water (H <sub>2</sub> O)(by Karl Fischer titrn) | ≤ 0.05 %      | 0.01 %      |
| Acidity (µeq/g)                                 | ≤ 0.2         | 0.1         |
| Alkalinity (µeq/g)                              | ≤ 0.1         | < 0.1       |
| Chloride (Cl)                                   | ≤ 0.2 ppm     | < 0.1 ppm   |
| Phosphate (PO <sub>4</sub> )                    | ≤ 0.3 ppm     | < 0.3 ppm   |
| Trace Impurities - Aluminum (Al)                | ≤ 50.0 ppb    | < 5.0 ppb   |
| Arsenic and Antimony (as As)                    | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Barium (Ba)                  | ≤ 20.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Beryllium (Be)               | ≤ 100.0 ppb   | < 1.0 ppb   |
| Trace Impurities - Bismuth (Bi)                 | ≤ 100.0 ppb   | < 10.0 ppb  |
| Trace Impurities - Boron (B)                    | ≤ 10.0 ppb    | < 5.0 ppb   |
| Trace Impurities - Cadmium (Cd)                 | ≤ 20.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Calcium (Ca)                 | ≤ 50.0 ppb    | 2.2 ppb     |
| Trace Impurities - Chromium (Cr)                | ≤ 20.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Cobalt (Co)                  | ≤ 20 ppb      | < 1 ppb     |
| Trace Impurities - Copper (Cu)                  | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Gallium (Ga)                 | ≤ 50 ppb      | < 1 ppb     |
| Trace Impurities - Germanium (Ge)               | ≤ 50.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Gold (Au)                    | ≤ 20 ppb      | < 5 ppb     |
| Heavy Metals (as Pb)                            | ≤ 200.0 ppb   | < 100.0 ppb |
| Trace Impurities - Iron (Fe)                    | ≤ 50.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Lead (Pb)                    | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Lithium (Li)                 | ≤ 50.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Magnesium (Mg)               | ≤ 20 ppb      | < 1 ppb     |

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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

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|--|---------------|-----------|
| Trace Impurities - Manganese (Mn)                                  | ≤ 15.0 ppb    | < 1.0 ppb |
| Trace Impurities - Molybdenum (Mo)                                 | ≤ 100.0 ppb   | < 5.0 ppb |
| Trace Impurities - Nickel (Ni)                                     | ≤ 10.0 ppb    | < 5.0 ppb |
| Trace Impurities - Niobium (Nb)                                    | ≤ 100.0 ppb   | < 1.0 ppb |
| Trace Impurities - Potassium (K)                                   | ≤ 100 ppb     | < 10 ppb  |
| Trace Impurities - Silicon (Si)                                    | ≤ 50 ppb      | < 10 ppb  |
| Trace Impurities - Silver (Ag)                                     | ≤ 20.0 ppb    | < 1.0 ppb |
| Trace Impurities - Sodium (Na)                                     | ≤ 100.0 ppb   | < 5.0 ppb |
| Trace Impurities - Strontium (Sr)                                  | ≤ 20.0 ppb    | < 1.0 ppb |
| Trace Impurities - Tantalum (Ta)                                   | ≤ 100.0 ppb   | < 5.0 ppb |
| Trace Impurities - Thallium (Tl)                                   | ≤ 10.0 ppb    | < 5.0 ppb |
| Trace Impurities - Tin (Sn)  | ≤ 100 ppb     | < 10 ppb  |
| Trace Impurities - Titanium (Ti)                                   | ≤ 20 ppb      | < 1 ppb   |
| Trace Impurities - Vanadium (V)                                    | ≤ 100.0 ppb   | < 1.0 ppb |
| Trace Impurities - Zinc (Zn)                                       | ≤ 50 ppb      | 1 ppb     |
| Trace Impurities - Zirconium (Zr)                                  | ≤ 100.0 ppb   | < 1.0 ppb |
| Particle Count at point of fill - 0.5 µm and greater (Rion KS42AF) | ≤ 150 par/ml  | 35 par/ml |
| Particle Count at point of fill - 1.0 µm and greater (Rion KS42AF) | ≤ 25 par/ml   | 11 par/ml |

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For Microelectronic Use  
Country of Origin: USA  
Packaging Site: Paris Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality

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