

2-Propanol  
CMOS  
(iso-propyl alcohol)



Material No.: 9059-08  
Batch No.: 24G1161036  
Manufactured Date: 2024-07-10  
Retest Date: 2029-07-09  
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 %      | 0.02 %      |
| Acidity (µeq/g)                                 | ≤ 0.2         | 0.1         |
| Alkalinity (µeq/g)                              | ≤ 0.1         | < 0.1       |
| Chloride (Cl)                                   | ≤ 0.2 ppm     | < 0.2 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    | 1.5 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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| 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  | < 1 par/ml |
| Particle Count at point of fill – 1.0 µm and greater (Rion KS42AF) | ≤ 25 par/ml   | < 1 par/ml |

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For Microelectronic Use

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

Michelle Bales  
Sr. Manager, Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700  
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