

2-Propanol
CMOS
(iso-propyl alcohol)



Material No.: 9059-08
Batch No.: 23L1861106
Manufactured Date: 2023-12-12
Retest Date: 2028-12-10
Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|-------------|
| Assay (CH ₃ CHOHCH ₃) | ≥ 99.5 % | 100.0 % |
| Color (APHA) | ≤ 10 | < 5 |
| Residue after Evaporation | ≤ 4 ppm | < 1 ppm |
| Solubility in H ₂ O | Passes Test | Passes Test |
| Water (H ₂ 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 | 0.2 ppm |
| Phosphate (PO ₄) | ≤ 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 | 7.0 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 | < 200.0 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 | 9.3 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 | 3 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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|------|---------------|--------|
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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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