2-Propanol VLSI

(iso-propyl alcohol)





Material No.: 5373-05 Batch No.: 0000263109 Manufactured Date: 2020/06/12 Retest Date: 2025/06/11 Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|------------------------------------|---------------|--------|
| ssay (CH3CHOHCH3) | >= 99.5 % | 100.0 |
| Color (APHA) | <= 10 | < 5 |
| esidue after Evaporation | <= 4 ppm | 1 |
| olubility in H2O | Passes Test | РТ |
| Vater (H2O)(by Karl Fischer titrn) | <= 0.05 % | 0.04 |
| cidity (µeq/g) | <= 0.2 | 0.1 |
| lkalinity (µeq/g) | <= 0.1 | < 0.1 |
| Chloride (Cl) | <= 0.1 ppm | < 0.1 |
| hosphate (PO4) | <= 0.3 ppm | < 0.1 |
| race Impurities – Aluminum (Al) | <= 50.0 ppb | < 5.0 |
| rsenic and Antimony (as As) | <= 10 ppb | < 10 |
| race Impurities – Barium (Ba) | <= 20.0 ppb | < 1.0 |
| race Impurities – Boron (B) | <= 10.0 ppb | < 5.0 |
| race Impurities – Cadmium (Cd) | <= 20.0 ppb | < 1.0 |
| race Impurities – Calcium (Ca) | <= 50.0 ppb | < 1.0 |
| race Impurities – Chromium (Cr) | <= 20.0 ppb | < 1.0 |
| race Impurities – Cobalt (Co) | <= 20.0 ppb | < 1.0 |
| race Impurities – Copper (Cu) | <= 10.0 ppb | < 1.0 |
| race Impurities – Gallium (Ga) | <= 50.0 ppb | < 1.0 |
| race Impurities – Germanium (Ge) | <= 50.0 ppb | < 10.0 |
| race Impurities – Gold (Au) | <= 20.0 ppb | < 5.0 |
| leavy Metals (as Pb) | <= 200 ppb | < 100 |
| race Impurities – Iron (Fe) | <= 50.0 ppb | < 1.0 |
| race Impurities – Lead (Pb) | <= 20.0 ppb | < 10.0 |

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 |
|-------------------------------------|---------------|--------|
| Frace Impurities – Lithium (Li) | <= 50.0 ppb | < 1.0 |
| Frace Impurities – Magnesium (Mg) | <= 20.0 ppb | < 1.0 |
| Frace Impurities – Manganese (Mn) | <= 20.0 ppb | < 1.0 |
| Frace Impurities – Nickel (Ni) | <= 10.0 ppb | < 5.0 |
| Frace Impurities – Potassium (K) | <= 100.0 ppb | < 10.0 |
| Frace Impurities – Silicon (Si) | <= 50.0 ppb | < 10.0 |
| Frace Impurities – Silver (Ag) | <= 20.0 ppb | < 1.0 |
| Frace Impurities – Sodium (Na) | <= 100.0 ppb | < 5.0 |
| Frace Impurities – Strontium (Sr) | <= 20.0 ppb | < 1.0 |
| Frace Impurities – Tin (Sn) | <= 100.0 ppb | < 10.0 |
| Frace Impurities – Titanium (Ti) | <= 20.0 ppb | < 1.0 |
| Frace Impurities – Zinc (Zn) | <= 50.0 ppb | < 1.0 |
| Particle Count – 0.5 µm and greater | <= 100 par/ml | 8 |
| Particle Count - 1.0 µm and greater | <= 8 par/ml | 2 |

For Microelectronic Use

Reported value is the average of all samples counted for this lot number, with no individual sample value exceeding the specification.

| Country of Origin: | US |
|--------------------|--------------------|
| Packaging Site: | Paris Mfg Ctr & DC |

James Methie

Jamie Ethier Vice President Global Quality

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