2-Propanol VLSI

(iso-propyl alcohol)





Material No.: 5373-05 Batch No.: 0000031573

Manufactured Date: 2013/01/07 Retest Date: 2018/01/06

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 |
| Solubility in H₂O | Passes Test | PT |
| Water (H2O)(by Karl Fischer titrn) | <= 0.05 % | < 0.01 |
| Acidity (µeq/g) | <= 0.2 | <0.1 |
| Alkalinity (µeq/g) | <= 0.1 | <0.1 |
| Chloride (CI) | <= 0.1 ppm | <0.1 |
| Phosphate (PO ₄) | <= 0.3 ppm | < 0.3 |
| Trace Impurities - Aluminum (AI) | <= 50.0 ppb | < 5.0 |
| Arsenic and Antimony (as As) | <= 10 ppb | < 10 |
| 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 | 1.7 |
| 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 | < 1.0 |
| 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 |
| Heavy Metals (as Pb) | <= 200 ppb | < 100 |
| Trace Impurities - Iron (Fe) | <= 50.0 ppb | < 1.0 |
| Trace Impurities – Lead (Pb) | <= 20.0 ppb | < 10.0 |

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|-------------------------------------|---------------|--------|
| Trace Impurities – Lithium (Li) | <= 50.0 ppb | < 1.0 |
| Trace Impurities – Magnesium (Mg) | <= 20.0 ppb | < 1.0 |
| Trace Impurities – Manganese (Mn) | <= 20.0 ppb | < 1.0 |
| Trace Impurities – Nickel (Ni) | <= 10.0 ppb | < 5.0 |
| Trace Impurities – Potassium (K) | <= 100.0 ppb | < 10.0 |
| Trace Impurities – Silicon (Si) | <= 50.0 ppb | < 10.0 |
| Trace Impurities – Silver (Ag) | <= 20.0 ppb | < 1.0 |
| Trace Impurities – Sodium (Na) | <= 100.0 ppb | < 5.0 |
| Trace Impurities – Strontium (Sr) | <= 20.0 ppb | < 1.0 |
| Trace 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 | 6 |
| 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



Phillipsburg, NJ 9001:2008, 14001:2004
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 17025:2005
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008, 17025:2005

Panoli, India 9001:2008

Richard M Siberski Global Director of Quality Assurance