2-Propanol CMOS

(iso-propyl alcohol)





Material No.: 9059-08 Batch No.: 0000099466 Manufactured Date: 2014/09/26 Retest Date: 2019/09/25

Certificate of Analysis

| Test | Specification | Result |
|------------------------------------|---------------|--------|
| ssay (CH3CHOHCH3) | >= 99.5 % | 99.9 |
| olor (APHA) | <= 10 | 5 |
| esidue after Evaporation | <= 4 ppm | < 1 |
| olubility in H2O | Passes Test | РТ |
| /ater (H2O)(by Karl Fischer titrn) | <= 0.05 % | 0.01 |
| cidity (µeq/g) | <= 0.2 | 0.1 |
| lkalinity (µeq/g) | <= 0.1 | < 0.1 |
| hloride (Cl) | <= 0.1 ppm | < 0.1 |
| hosphate (PO4) | <= 0.3 ppm | < 0.3 |
| 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 – Beryllium (Be) | <= 100.0 ppb | < 1.0 |
| race Impurities – Bismuth (Bi) | <= 100.0 ppb | < 10.0 |
| 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 | 3.3 |
| 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 |
| eavy Metals (as Pb) | <= 200 ppb | < 100 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600 Avantor ™ Performance Materials Inc.

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| Test | Specification | Result |
|---|---------------|--------|
| Trace Impurities – Iron (Fe) | <= 50.0 ppb | < 1.0 |
| Trace Impurities – Lead (Pb) | <= 20.0 ppb | < 10.0 |
| Trace Impurities – Lithium (Li) | <= 50.0 ppb | < 1.0 |
| Trace Impurities – Magnesium (Mg) | <= 20.0 ppb | < 1.0 |
| Trace Impurities – Manganese (Mn) | <= 15.0 ppb | < 1.0 |
| Trace Impurities – Molybdenum (Mo) | <= 100.0 ppb | < 5.0 |
| Trace Impurities – Nickel (Ni) | <= 10.0 ppb | < 5.0 |
| Trace Impurities – Niobium (Nb) | <= 100.0 ppb | < 1.0 |
| 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 – Tantalum (Ta) | <= 100.0 ppb | < 5.0 |
| Trace Impurities – Thallium (Tl) | <= 10.0 ppb | < 5.0 |
| Trace Impurities – Tin (Sn) | <= 100.0 ppb | < 10.0 |
| Trace Impurities – Titanium (Ti) | <= 20.0 ppb | < 1.0 |
| Trace Impurities – Vanadium (V) | <= 100.0 ppb | < 1.0 |
| Trace Impurities – Zinc (Zn) | <= 50.0 ppb | 1.0 |
| Trace Impurities – Zirconium (Zr) | <= 100.0 ppb | < 1.0 |
| Particle Count at point of fill – 0.5 µm and greater (Rion KS42AF) | <= 150 par/ml | 14 |
| Particle Count at point of fill – 1.0 µm and greater (Rion KS42AF) | <= 25 par/ml | 5 |

For Microelectronic Use

Country of Origin:USPackaging 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

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