2-Propanol CMOS

(iso-propyl alcohol)





Material No.: 9079-05 Batch No.: 0000210381 Manufactured Date: 2018/08/28 Retest Date: 2023/08/27 Revision No: 1

## Certificate of Analysis

| Test                               | Specification | Result |
|------------------------------------|---------------|--------|
| Assay (CH3CHOHCH3)                 | >= 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 %     | 0.02   |
| Acidity (µeq/g)                    | <= 0.2        | 0.1    |
| Alkalinity (µeq/g)                 | <= 0.1        | < 0.1  |
| Chloride (Cl)                      | <= 0.1 ppm    | < 0.1  |
| Phosphate (PO4)                    | <= 0.3 ppm    | < 0.3  |
| Trace Impurities – Aluminum (Al)   | <= 50.0 ppb   | < 5.0  |
| Arsenic and Antimony (as As)       | <= 10 ppb     | < 10   |
| Trace Impurities – Barium (Ba)     | <= 20.0 ppb   | < 1.0  |
| Frace Impurities – Beryllium (Be)  | <= 100.0 ppb  | < 1.0  |
| Trace Impurities – Bismuth (Bi)    | <= 100.0 ppb  | < 10.0 |
| 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   | 3.5    |
| 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  |

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 |
|------------------------------------|----------------|--------|
| race Impurities – Iron (Fe)        | <= 50.0 ppb    | < 1.0  |
| race Impurities – Lead (Pb)        | <= 20.0 ppb    | < 10.0 |
| race Impurities – Lithium (Li)     | <= 50.0 ppb    | < 1.0  |
| race Impurities – Magnesium (Mg)   | <= 20.0 ppb    | < 1.0  |
| race Impurities – Manganese (Mn)   | <= 15.0 ppb    | < 1.0  |
| race Impurities – Molybdenum (Mo)  | <= 100.0 ppb   | < 5.0  |
| race Impurities – Nickel (Ni)      | <= 10.0 ppb    | < 5.0  |
| race Impurities – Niobium (Nb)     | <= 100.0 ppb   | < 1.0  |
| race Impurities – Potassium (K)    | <= 100.0 ppb   | < 10.0 |
| race Impurities – Silicon (Si)     | <= 50.0 ppb    | < 10.0 |
| race Impurities – Silver (Ag)      | <= 20.0 ppb    | < 1.0  |
| race Impurities – Sodium (Na)      | <= 100.0 ppb   | < 5.0  |
| race Impurities – Strontium (Sr)   | <= 20.0 ppb    | < 1.0  |
| race Impurities – Tantalum (Ta)    | <= 100.0 ppb   | < 5.0  |
| race Impurities – Thallium (TI)    | <= 10.0 ppb    | < 5.0  |
| race Impurities – Tin (Sn)         | <= 100.0 ppb   | < 10.0 |
| race Impurities – Titanium (Ti)    | <= 20.0 ppb    | < 1.0  |
| race Impurities – Vanadium (V)     | <= 100.0 ppb   | < 1.0  |
| race Impurities – Zinc (Zn)        | <= 50.0 ppb    | < 1.0  |
| race Impurities – Zirconium (Zr)   | <= 100.0 ppb   | < 1.0  |
| article Count - 0.2 µm and greater | <= 5000 par/ml | 878    |
| article Count – 0.3 µm and greater | <= 5000 par/ml | 169    |
| article Count - 0.5 µm and greater | <= 50 par/ml   | 18     |
| article Count - 1.0 µm and greater | <= 8 par/ml    | 3      |

For Microelectronic Use

Country of Origin:USPackaging Site:Paris Mfg Ctr & DC



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