2-Propanol CMOS

(iso-propyl alcohol)





Material No.: 9079-05 Batch No.: 0000275420 Manufactured Date: 2020/11/12 Retest Date: 2025/11/11 Revision No: 1

## Certificate of Analysis

| Test                               | Specification | Result |
|------------------------------------|---------------|--------|
| ssay (CH3CHOHCH3)                  | >= 99.5 %     | 100.0  |
| olor (APHA)                        | <= 10         | < 5    |
| esidue after Evaporation           | <= 4 ppm      | < 1    |
| olubility in H2O                   | Passes Test   | РТ     |
| /ater (H2O)(by Karl Fischer titrn) | <= 0.05 %     | 0.03   |
| cidity (µeq/g)                     | <= 0.2        | < 0.1  |
| lkalinity (µeq/g)                  | <= 0.1        | < 0.1  |
| hloride (Cl)                       | <= 0.2 ppm    | < 0.2  |
| hosphate (PO4)                     | <= 0.3 ppm    | < 0.3  |
| race Impurities – Aluminum (Al)    | <= 50.0 ppb   | < 5.0  |
| rsenic and Antimony (as As)        | <= 10 ppb     | < 5    |
| 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   | 2.4    |
| 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 +1.610.386.1700 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 | 15     |
| article Count – 0.3 µm and greater | <= 5000 par/ml | 4      |
| article Count - 0.5 µm and greater | <= 50 par/ml   | 1      |
| article Count - 1.0 µm and greater | <= 8 par/ml    | 1      |

For Microelectronic Use

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

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