

2-Propanol  
CMOS  
(iso-propyl alcohol)



Material No.: 9059-08  
Batch No.: 21L2861027  
Manufactured Date: 2021-12-06  
Retest Date: 2026-12-05  
Revision No.: 0

# Certificate of Analysis

Test	Specification	Result
Assay (CH <sub>3</sub> CHOHCH <sub>3</sub> )	≥ 99.5 %	100.0 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 4 ppm	< 1 ppm
Solubility in H <sub>2</sub> O	Passes Test	Passes Test
Water (H <sub>2</sub> O)(by Karl Fischer titrn)	≤ 0.05 %	0.03 %
Acidity (µeq/g)	≤ 0.2	0.1
Alkalinity (µeq/g)	≤ 0.1	0.1
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.3 ppm	< 0.3 ppm
Trace Impurities - Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 100.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	1.4 ppb
Trace Impurities - Chromium (Cr)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 20 ppb	< 1 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 50 ppb	< 1 ppb
Trace Impurities - Germanium (Ge)	≤ 50.0 ppb	10.0 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 200.0 ppb	< 100.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb

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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

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Trace Impurities - Manganese (Mn)	≤ 15.0 ppb	< 1.0 ppb
Trace Impurities - Molybdenum (Mo)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Niobium (Nb)	≤ 100.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 100 ppb	< 10 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 100 ppb	< 10 ppb
Trace Impurities - Titanium (Ti)	≤ 20 ppb	< 1 ppb
Trace Impurities - Vanadium (V)	≤ 100.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 50 ppb	< 1 ppb
Trace Impurities - Zirconium (Zr)	≤ 100.0 ppb	< 1.0 ppb
Particle Count at point of fill - 0.5 µm and greater (Rion KS42AF)	≤ 150 par/ml	51 par/ml
Particle Count at point of fill - 1.0 µm and greater (Rion KS42AF)	≤ 25 par/ml	21 par/ml

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For Microelectronic Use  
Country of Origin: USA  
Packaging Site: Paris Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality

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