

2-Propanol  
CMOS  
(iso-propyl alcohol)



Material No.: 9059-08  
Batch No.: 24I1361022  
Manufactured Date: 2024-09-10  
Retest Date: 2029-09-09  
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	<0 ppm
Solubility in H <sub>2</sub> O	Passes Test	Passes Test
Water (H <sub>2</sub> O)(by Karl Fischer titrn)	<= 0.05 %	0.01 %
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	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 50.0 ppb	<5.0 ppb
Arsenic & 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	<1.0 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	<50.0 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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

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Material No.: 9059-08  
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Test	Specification	Result
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	13.0 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 $\mu$ m and greater (Rion KS42AF)	<= 150 par/ml	5 par/ml
Particle Count at point of fill – 1.0 $\mu$ m and greater (Rion KS42AF)	<= 25 par/ml	2 par/ml

For Microelectronic Use

Country of Origin: United States  
Packaging Site: Paris Mfg Ctr & DC

  
Michelle Bales  
Sr. Manager, Quality Assurance

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