2-Propanol
CMOS

(iso-propyl alcohol)

Material No.: 9059-08
Batch No.: 0000255777
Manufactured Date: 2020/03/09
Retest Date: 2025/03/08
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay ($CH_3CHOHCH_3$)	>= 99.5 %	100.0
Color (APHA)	<= 10	< 5
Residue after Evaporation	<= 4 ppm	< 1
Solubility in H_2O	Passes Test	PT
Water (H_2O)(by Karl Fischer titrn)	<= 0.05 %	0.01
Acidity (µeq/g)	<= 0.2	0.1
Alkalinity (µeq/g)	<= 0.1	< 0.1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Phosphate (PO_4)	<= 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
Trace 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	< 1.0
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

Material No.: 9059-08
Batch No.: 0000255777

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	5
Particle Count at point of fill - 1.0 µm and greater (Rion KS42AF)	<= 25 par/ml	2

For Microelectronic Use

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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