2-Propanol CMOS

(iso-propyl alcohol)





Material No.: 9079-05 Batch No.: 0000152011 Manufactured Date: 2016/07/25 Retest Date: 2021/07/24

## Certificate of Analysis

Test	Specification	Result
Assay (CH3CHOHCH3)	>= 99.5 %	100.0
Color (APHA)	<= 10	5
Residue after Evaporation	<= 4 ppm	< 1
Solubility in H <sub>2</sub> O	Passes Test	РТ
Nater (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	< 0.1
Frace Impurities – Aluminum (Al)	<= 50.0 ppb	< 5.0
Arsenic and Antimony (as As)	<= 10 ppb	< 10
Frace Impurities – Barium (Ba)	<= 20.0 ppb	< 1.0
Frace Impurities – Beryllium (Be)	<= 100.0 ppb	< 1.0
Frace Impurities – Bismuth (Bi)	<= 100.0 ppb	< 10.0
Frace Impurities – Boron (B)	<= 10.0 ppb	< 5.0
Frace Impurities – Cadmium (Cd)	<= 20.0 ppb	< 1.0
Frace Impurities – Calcium (Ca)	<= 50.0 ppb	1.7
Frace Impurities – Chromium (Cr)	<= 20.0 ppb	< 1.0
Frace Impurities – Cobalt (Co)	<= 20.0 ppb	< 1.0
Frace Impurities – Copper (Cu)	<= 10.0 ppb	< 1.0
Frace Impurities – Gallium (Ga)	<= 50.0 ppb	< 1.0
Frace Impurities – Germanium (Ge)	<= 50.0 ppb	< 10.0
Frace 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 +1.610.573.2600 Avantor ™ Performance Materials Inc.

3477 Corporate Parkway. Suite #200. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

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	< 10.0
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 – 0.2 µm and greater	<= 5000 par/ml	37
Particle Count – 0.3 µm and greater	<= 5000 par/ml	6
Particle Count – 0.5 µm and greater	<= 50 par/ml	2
Particle Count – 1.0 µm and greater	<= 8 par/ml	1

For Microelectronic Use

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



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000 Paris, KY 9001:2008 Mexico City, Mexico 9001:2008 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003 Gliwice, Poland 9001:2008, 13485:2012 Selangor, Malaysia 9001:2008 Dehradun, India, 9001:2008, 14001:2004, 13485:2003 Mumbai, India, 9001:2008 Panoli, India 9001:2008

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