2-Propanol CMOS

(iso-propyl alcohol)





Material No.: 9079-05 Batch No.: 0000224421 Manufactured Date: 2019/02/22 Retest Date: 2024/02/21 Revision No: 1

## Certificate of Analysis

Test	Specification	Result
Assay (CH3CHOHCH3)	>= 99.5 %	100.0
Color (APHA)	<= 10	5
Residue after Evaporation	<= 4 ppm	< 1
Solubility in H2O	Passes Test	РТ
Vater (H₂O)(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 (PO4)	<= 0.3 ppm	< 0.3
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	< 1.0
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 +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Frace Impurities – Iron (Fe)	<= 50.0 ppb	< 1.0
Frace Impurities – Lead (Pb)	<= 20.0 ppb	< 10.0
Frace Impurities – Lithium (Li)	<= 50.0 ppb	< 1.0
Frace Impurities – Magnesium (Mg)	<= 20.0 ppb	< 1.0
Frace Impurities – Manganese (Mn)	<= 15.0 ppb	< 1.0
Frace Impurities – Molybdenum (Mo)	<= 100.0 ppb	< 5.0
Frace Impurities – Nickel (Ni)	<= 10.0 ppb	< 5.0
Frace Impurities – Niobium (Nb)	<= 100.0 ppb	< 1.0
Frace Impurities – Potassium (K)	<= 100.0 ppb	< 10.0
Frace Impurities – Silicon (Si)	<= 50.0 ppb	< 10.0
Frace Impurities – Silver (Ag)	<= 20.0 ppb	< 1.0
Frace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
race Impurities – Strontium (Sr)	<= 20.0 ppb	< 1.0
Frace Impurities – Tantalum (Ta)	<= 100.0 ppb	< 5.0
Frace Impurities – Thallium (Tl)	<= 10.0 ppb	< 5.0
Frace Impurities – Tin (Sn)	<= 100.0 ppb	< 10.0
Frace Impurities – Titanium (Ti)	<= 20.0 ppb	< 1.0
Frace Impurities – Vanadium (V)	<= 100.0 ppb	< 1.0
Frace Impurities – Zinc (Zn)	<= 50.0 ppb	< 1.0
Frace Impurities – Zirconium (Zr)	<= 100.0 ppb	< 1.0
Particle Count – 0.2 µm and greater	<= 5000 par/ml	436
Particle Count - 0.3 µm and greater	<= 5000 par/ml	85
Particle Count – 0.5 µm and greater	<= 50 par/ml	8
Particle Count - 1.0 μm and greater	<= 8 par/ml	1

For Microelectronic Use

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

James Techie

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