2-Propanol CMOS

(iso-propyl alcohol)



Material No.: 9079-05 Batch No.: 0000223922

Manufactured Date: 2019/02/01 Retest Date: 2024/01/31

Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH3CHOHCH3)	>= 99.5 %	100.0
Color (APHA)	<= 10	< 5
Residue after Evaporation	<= 4 ppm	2
Solubility in H₂O	Passes Test	PT
Water (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 (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	2.6
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

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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
Frace Impurities – Magnesium (Mg)	<= 20.0 ppb	< 1.0
Trace Impurities – Manganese (Mn)	<= 15.0 ppb	< 1.0
Frace Impurities – Molybdenum (Mo)	<= 100.0 ppb	< 5.0
race Impurities – Nickel (Ni)	<= 10.0 ppb	< 5.0
race Impurities – Niobium (Nb)	<= 100.0 ppb	< 1.0
race Impurities – Potassium (K)	<= 100.0 ppb	< 10.0
race Impurities – Silicon (Si)	<= 50.0 ppb	< 10.0
race 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
race 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
race Impurities – Vanadium (V)	<= 100.0 ppb	< 1.0
race Impurities – Zinc (Zn)	<= 50.0 ppb	< 1.0
race Impurities – Zirconium (Zr)	<= 100.0 ppb	< 1.0
article Count – 0.2 µm and greater	<= 5000 par/ml	541
article Count – 0.3 µm and greater	<= 5000 par/ml	106
article Count – 0.5 µm and greater	<= 50 par/ml	10
Particle Count – 1.0 µm and greater	<= 8 par/ml	2

For Microelectronic Use

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC

