2-Propanol CMOS

(iso-propyl alcohol)





Material No.: 9079-05 Batch No.: 0000221191 Manufactured Date: 2018/12/07 Retest Date: 2023/12/06 Revision No: 1

## Certificate of Analysis

Test	Specification	Result
ssay (CH3CHOHCH3)	>= 99.5 %	100.0
olor (APHA)	<= 10	< 5
esidue after Evaporation	<= 4 ppm	1
olubility in H2O	Passes Test	РТ
/ater (H2O)(by Karl Fischer titrn)	<= 0.05 %	0.01
cidity (µeq/g)	<= 0.2	0.1
lkalinity (µeq/g)	<= 0.1	< 0.1
hloride (Cl)	<= 0.1 ppm	< 0.1
hosphate (PO4)	<= 0.3 ppm	< 0.3
race Impurities – Aluminum (Al)	<= 50.0 ppb	< 5.0
rsenic and Antimony (as As)	<= 10 ppb	< 10
race Impurities – Barium (Ba)	<= 20.0 ppb	< 1.0
race Impurities – Beryllium (Be)	<= 100.0 ppb	< 1.0
race Impurities – Bismuth (Bi)	<= 100.0 ppb	< 10.0
race Impurities – Boron (B)	<= 10.0 ppb	< 5.0
race Impurities – Cadmium (Cd)	<= 20.0 ppb	< 1.0
race Impurities – Calcium (Ca)	<= 50.0 ppb	2.1
race Impurities – Chromium (Cr)	<= 20.0 ppb	< 1.0
race Impurities – Cobalt (Co)	<= 20.0 ppb	< 1.0
race Impurities – Copper (Cu)	<= 10.0 ppb	< 1.0
race Impurities – Gallium (Ga)	<= 50.0 ppb	< 1.0
race Impurities – Germanium (Ge)	<= 50.0 ppb	< 10.0
race Impurities – Gold (Au)	<= 20.0 ppb	< 5.0
eavy 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
race Impurities – Iron (Fe)	<= 50.0 ppb	< 1.0
race Impurities – Lead (Pb)	<= 20.0 ppb	< 10.0
race Impurities – Lithium (Li)	<= 50.0 ppb	< 1.0
race Impurities – Magnesium (Mg)	<= 20.0 ppb	< 1.0
race Impurities – Manganese (Mn)	<= 15.0 ppb	< 1.0
race 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
race 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
race Impurities – Thallium (Tl)	<= 10.0 ppb	< 5.0
race Impurities – Tin (Sn)	<= 100.0 ppb	< 10.0
race 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	386
article Count – 0.3 µm and greater	<= 5000 par/ml	48
article Count – 0.5 µm and greater	<= 50 par/ml	4
article Count - 1.0 µm and greater	<= 8 par/ml	1

For Microelectronic Use

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



Phillipsburg, NJ 9001:2015, FSSC22000 Paris, KY 9001:2008 Mexico City, Mexico 9001:2008 Gliwice, Poland 9001:2015, 13485:2012 Selangor, Malaysia 9001:2008 Dehradun, India, 9001:2008, 14001:2004, 13485:2003 Mumbai, India, 9001:2015, 17025:2005 Panoli, India 9001:2015

James Techie

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