Methanol CMOS





Material No.: 9073-05 Batch No.: 0000121485 Manufactured Date: 2015/09/02 Retest Date: 2020/08/31

Certificate of Analysis

Test	Specification	Result
ssay (CH₃OH) (by GC)	>= 99.9 %	100.0
Color (APHA)	<= 10	5
cidity (µeq/g)	<= 0.3	0.3
lkalinity (µeq/g)	<= 0.1	< 0.1
leavy Metals (as Pb)	<= 100 ppb	< 50
lesidue after Evaporation	<= 5 ppm	< 1
Vater (H2O)(by Karl Fischer titrn)	<= 0.05 %	< 0.01
olubility in H2O	Passes Test	РТ
Chloride (Cl)	<= 0.2 ppm	< 0.1
hosphate (PO4)	<= 0.3 ppm	< 0.2
ulfate (SO4)	<= 0.5 ppm	< 0.5
race Impurities – Aluminum (Al)	<= 50.0 ppb	< 5.0
race Impurities – Arsenic (As)	<= 5.0 ppb	< 5.0
race Impurities – Antimony (Sb)	<= 5.0 ppb	1.0
race Impurities – Barium (Ba)	<= 20.0 ppb	< 1.0
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	29.0
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

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	9.0
Trace Impurities – Lead (Pb)	<= 50.0 ppb	< 5.0
Trace Impurities – Lithium (Li)	<= 50.0 ppb	< 1.0
Trace Impurities – Magnesium (Mg)	<= 50.0 ppb	7.0
Trace Impurities – Manganese (Mn)	<= 10.0 ppb	< 1.0
Trace Impurities – Molybdenum (Mo)	<= 300.0 ppb	< 1.0
Trace Impurities – Nickel (Ni)	<= 10.0 ppb	< 5.0
Trace Impurities – Potassium (K)	<= 50.0 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)	<= 50.0 ppb	25.0
Trace Impurities – Strontium (Sr)	<= 10.0 ppb	< 1.0
Trace Impurities – Tin (Sn)	<= 50.0 ppb	< 5.0
Trace Impurities – Titanium (Ti)	<= 20.0 ppb	< 1.0
Trace Impurities – Vanadium (V)	<= 300.0 ppb	< 1.0
Trace Impurities – Zinc (Zn)	<= 50.0 ppb	< 1.0
Trace Impurities – Zirconium (Zr)	<= 300.0 ppb	< 1.0
Particle Count – 0.5 µm and greater	<= 100 par/ml	1
Particle Count – 1.0 µm and greater	<= 8 par/ml	< 1

For Microelectronic Use

Country of Origin:	US
Packaging Site:	Phillipsburg 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 Selangor, Malaysia 9001:2008 Dehradun, India, 9001:2008, 14001:2004, 13485:2003 Mumbai, India, 9001:2008, 17025:2005 Panoli, India 9001:2008

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