Ethylene Glycol CMOS





Material No.: 9346-05 Batch No.: 0000250287 Manufactured Date: 2020/01/15 Retest Date: 2025/01/13 Revision No: 1

## Certificate of Analysis

Test	Specification	Result
ssay (HOCH2CH2OH) (by GC)	>= 99.0 %	99.9
Color (APHA)	<= 10	5
cidity (µeq/g)	<= 0.8	0.1
cidity (as CH3COOH)(by wt)	<= 0.01 %	< 0.01
esidue after Ignition	<= 0.005 %	< 0.001
/ater (H2O)(by Karl Fischer titrn)	<= 0.2 %	< 0.1
hloride (Cl)	<= 1 ppm	< 1
hosphate (PO4)	<= 2 ppm	< 2
ulfate (SO4)	<= 2 ppm	< 2
rsenic and Antimony (as As)	<= 0.100 ppm	< 0.100
race Impurities – Iron (Fe)	<= 0.2 ppm	< 0.1
race Impurities – Aluminum (Al)	<= 100.0 ppb	< 5.0
race Impurities – Barium (Ba)	<= 100.0 ppb	< 1.0
race Impurities – Boron (B)	<= 50.0 ppb	< 5.0
race Impurities – Calcium (Ca)	<= 300.0 ppb	3.0
race Impurities – Chromium (Cr)	<= 50.0 ppb	< 1.0
race Impurities – Copper (Cu)	<= 10.0 ppb	< 1.0
race Impurities – Gold (Au)	<= 50.0 ppb	< 5.0
race Impurities – Lead (Pb)	<= 200.0 ppb	< 10.0
race Impurities – Lithium (Li)	<= 100.0 ppb	< 1.0
race Impurities – Magnesium (Mg)	<= 100.0 ppb	< 1.0
race Impurities – Manganese (Mn)	<= 100.0 ppb	< 1.0
race Impurities – Nickel (Ni)	<= 100.0 ppb	< 5.0
race Impurities – Potassium (K)	<= 300.0 ppb	< 10.0

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

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Test	Specification	Result
Frace Impurities – Sodium (Na)	<= 300.0 ppb	6.0
Frace Impurities – Tin (Sn)	<= 100.0 ppb	< 10.0
Frace Impurities – Titanium (Ti)	<= 100.0 ppb	< 1.0
Frace Impurities – Zinc (Zn)	<= 400.0 ppb	20.1
Particle Count – 0.5 µm and greater	<= 200 par/ml	20
Particle Count - 1.0 µm and greater	<= 10 par/ml	7

For Microelectronic Use

Country of Origin:	US
Packaging Site:	Paris Mfg Ctr & DC

James Techie

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