

Material No.: 9346-05

Batch No.: 25C2461043

Manufactured Date: 2025-03-19

Retest Date: 2030-03-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HOCH ₂ CH ₂ OH) (by GC)	>= 99.0 %	99.9 %
Color (APHA)	<= 10	5
Acidity (µeq/g)	<= 0.8	0.7
Acidity (as CH ₃ COOH)(by wt)	<= 0.01 %	0.00 %
Residue after Ignition	<= 0.005 %	<0.001 %
Water (H ₂ O)(by Karl Fischer titrn)	<= 0.2 %	<0.1 %
Chloride (Cl)	<= 1 ppm	<1 ppm
Phosphate (PO ₄)	<= 2 ppm	<2 ppm
Sulfate (SO ₄)	<= 2 ppm	<2 ppm
Arsenic & Antimony (as As)	<= 0.100 ppm	<0.100 ppm
Trace Impurities – Iron (Fe)	<= 0.2 ppm	0.0 ppm
Trace Impurities – Aluminum (Al)	<= 100.0 ppb	8.1 ppb
Trace Impurities – Barium (Ba)	<= 100.0 ppb	2.0 ppb
Trace Impurities – Boron (B)	<= 50 ppb	<5 ppb
Trace Impurities – Calcium (Ca)	<= 300 ppb	27 ppb
Trace Impurities – Chromium (Cr)	<= 50 ppb	1 ppb
Trace Impurities – Copper (Cu)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 50 ppb	<5 ppb
Trace Impurities – Lead (Pb)	<= 200.0 ppb	<10.0 ppb
Trace Impurities – Lithium (Li)	<= 100.0 ppb	<1.0 ppb
Trace Impurities – Magnesium (Mg)	<= 100.0 ppb	3.1 ppb
Trace Impurities – Manganese (Mn)	<= 100.0 ppb	<1.0 ppb
Trace Impurities – Nickel (Ni)	<= 100.0 ppb	<5.0 ppb
Trace Impurities – Potassium (K)	<= 300.0 ppb	<10.0 ppb
Trace Impurities – Sodium (Na)	<= 300 ppb	101 ppb
Trace Impurities – Tin (Sn)	<= 100 ppb	<10 ppb
Trace Impurities – Titanium (Ti)	<= 100.0 ppb	<1.0 ppb
Trace Impurities – Zinc (Zn)	<= 400.0 ppb	11.5 ppb

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

Ethylene Glycol
CMOS



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Test	Specification	Result
Particle Count – 0.5 µm and greater	<= 200 par/ml	42 par/ml
Particle Count – 1.0 µm and greater	<= 10 par/ml	9 par/ml

For Microelectronic Use

Country of Origin: United States
Packaging Site: Paris Mfg Ctr & DC


Michelle Bales
Sr. Manager, Quality Assurance

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