



Material No.: 9346-05 Batch No.: 0000051695

Manufactured Date: 2013/07/11

Retest Date: 2018/07/10

Certificate of Analysis

Test	Specification	Result
Assay (HOCH2CH2OH) (by GC)	>= 99.0 %	99.9
Color (APHA)	<= 10	5
Acidity (μeq/g)	<= 0.8	0.2
Acidity (as CH₃COOH)(by wt)	<= 0.01 %	< 0.01
Residue after Ignition	<= 0.005 %	0.001
Water (H2O)(by Karl Fischer titrn)	<= 0.2 %	< 0.1
Chloride (Cl)	<= 1 ppm	< 1
Phosphate (PO ₄)	<= 2 ppm	< 2
Sulfate (SO ₄)	<= 2 ppm	< 2
Arsenic and Antimony (as As)	<= 0.100 ppm	< 0.100
Trace Impurities – Iron (Fe)	<= 0.2 ppm	< 0.1
Trace Impurities – Aluminum (Al)	<= 100.0 ppb	< 5.0
Trace Impurities – Barium (Ba)	<= 100.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 50.0 ppb	< 5.0
Trace Impurities – Calcium (Ca)	<= 300.0 ppb	6.8
Trace Impurities – Chromium (Cr)	<= 50.0 ppb	< 1.0
Trace Impurities – Copper (Cu)	<= 10.0 ppb	< 1.0
Trace Impurities – Gold (Au)	<= 50.0 ppb	< 5.0
Trace Impurities – Lead (Pb)	<= 200.0 ppb	< 10.0
Trace Impurities – Lithium (Li)	<= 100.0 ppb	< 1.0
Trace Impurities – Magnesium (Mg)	<= 100.0 ppb	< 1.0
Trace Impurities – Manganese (Mn)	<= 100.0 ppb	< 1.0
Trace Impurities – Nickel (Ni)	<= 100.0 ppb	< 5.0
Trace Impurities – Potassium (K)	<= 300.0 ppb	< 10.0

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Specification	Result
<= 300.0 ppb	< 5.0
<= 100.0 ppb	< 10.0
<= 100.0 ppb	< 1.0
<= 400.0 ppb	27.0
<= 200 par/ml	14
<= 10 par/ml	5
	<= 300.0 ppb <= 100.0 ppb <= 100.0 ppb <= 400.0 ppb <= 200 par/ml

For Microelectronic Use

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC



Phillipsburg, NJ 9001:2008, 14001:2004 Paris, KY 9001:2008 Mexico City, Mexico 9001:2008 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003 Gliwice, Poland 9001:2008, 17025:2005 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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