



Material No.: 5356-05 Batch No.: 22K2961056 Manufactured Date: 2022-11-25 Retest Date: 2027-11-24 Revision No.: 0

## Certificate of Analysis

Test	Specification	Result
Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	1 ppm
Acidity (µeq/g)	≤ 0.3	0.2
Alkalinity (µeq/g)	≤ <b>0.5</b>	< 0.1
Water (H2O)	$\leq$ 0.5 %	0.1 %
Solubility in H₂O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO4)	$\leq$ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	$\leq$ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	$\leq$ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	$\leq$ 20.0 ppb	< 5.0 ppb
Trace Impurities – Calcium (Ca)	≤ 25.0 ppb	3.2 ppb
Trace Impurities – Chromium (Cr)	$\leq$ 20.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	$\leq$ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	$\leq$ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	$\leq$ 50.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	$\leq$ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	$\leq$ 10.0 ppb	< 5.0 ppb
Trace Impurities – Potassium (K)	$\leq$ 50 ppb	< 10 ppb
Trace Impurities – Sodium (Na)	$\leq$ 50.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 50 ppb	< 10 ppb
Trace Impurities – Titanium (Ti)	≤ 20 ppb	< 1 ppb
Trace Impurities – Zinc (Zn)	≤ 50 ppb	< 1 ppb

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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 Acetone VLSI





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Test	Specification	Result	_
Particle Count – 0.5 µm and greater	$\leq$ 60 par/ml	7 par/ml	
Particle Count - 1.0 $\mu m$ and greater	$\leq$ 8 par/ml	3 par/ml	

For Microelectronic Use

Reported value is the average of all samples counted for this lot number, with no individual sample value exceeding the specification.

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

James Ttehier

Jamie Ethier Vice President Global Quality

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