

Material No.: 9466-03 Batch No.: 0000237617

Manufactured Date: 2019/07/31

Retest Date: 2024/07/29 Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (C ₆ H ₅ CH ₃) (by GC)	>= 99.5 %	100.0
Color (APHA)	<= 10	5
Acidity (µeq/g)	<= 0.2	< 0.1
Residue after Evaporation	<= 2.0 ppm	1.0
Water (by KF, coulometric)	<= 0.03 %	0.02
Substances Darkened by H ₂ SO ₄	Passes Test	PT
Sulfur Compounds (as S)	<= 0.003 %	< 0.001
Chloride (CI)	<= 2 ppm	< 2
Phosphate (PO ₄)	<= 0.5 ppm	< 0.5
Trace Impurities – Aluminum (AI)	<= 20.0 ppb	< 5.0
Arsenic and Antimony (as As)	<= 10 ppb	< 10
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 20.0 ppb	< 1.0
Trace Impurities - Calcium (Ca)	<= 100.0 ppb	2.0
Trace Impurities – Chromium (Cr)	<= 10.0 ppb	< 1.0
Trace Impurities - Cobalt (Co)	<= 20.0 ppb	< 1.0
Trace Impurities - Copper (Cu)	<= 20.0 ppb	< 1.0
Trace Impurities - Gallium (Ga)	<= 50.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 50.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 20.0 ppb	< 5.0
Heavy Metals (as Pb)	<= 500 ppb	< 500
Trace Impurities - Iron (Fe)	<= 20.0 ppb	< 1.0
Trace Impurities – Lithium (Li)	<= 20.0 ppb	< 1.0

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Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 1.0
Trace Impurities – Manganese (Mn)	<= 10.0 ppb	< 1.0
Trace Impurities - Nickel (Ni)	<= 20.0 ppb	< 5.0
Trace Impurities – Potassium (K)	<= 50.0 ppb	< 10.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities – Silver (Ag)	<= 20.0 ppb	< 1.0
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 10.0 ppb	< 1.0
Trace Impurities - Tin (Sn)	<= 30.0 ppb	< 10.0
Trace Impurities – Zinc (Zn)	<= 20.0 ppb	< 1.0
Particle Count – 1.0 µm and greater	<= 10 par/ml	1

For Microelectronic Use

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC

