

Material No.: 9073-05 Batch No.: 0000241792

Manufactured Date: 2019/09/16

Retest Date: 2024/09/14 Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH₃OH) (by GC)	>= 99.9 %	100.0
Color (APHA)	<= 10	< 5
Acidity (µeq/g)	<= 0.3	0.1
Alkalinity (µeq/g)	<= 0.1	< 0.1
Heavy Metals (as Pb)	<= 100 ppb	< 50
Residue after Evaporation	<= 5 ppm	2
Nater (H2O)(by Karl Fischer titrn)	<= 0.05 %	0.02
Solubility in H ₂ O	Passes Test	PT
Chloride (CI)	<= 0.2 ppm	< 0.1
Phosphate (PO4)	<= 0.3 ppm	< 0.3
Sulfate (SO ₄)	<= 0.5 ppm	< 0.5
Frace Impurities - Aluminum (Al)	<= 50.0 ppb	< 5.0
race Impurities – Arsenic (As)	<= 5.0 ppb	< 2.0
Frace Impurities - Antimony (Sb)	<= 5.0 ppb	< 1.0
Frace Impurities – Barium (Ba)	<= 20.0 ppb	< 1.0
Гrace Impurities – Boron (B)	<= 10.0 ppb	< 5.0
Frace Impurities – Cadmium (Cd)	<= 20.0 ppb	< 1.0
Frace Impurities – Calcium (Ca)	<= 50.0 ppb	8.0
Trace Impurities - Chromium (Cr)	<= 20.0 ppb	< 1.0
Frace Impurities – Cobalt (Co)	<= 20.0 ppb	< 1.0
Frace Impurities – Copper (Cu)	<= 10.0 ppb	< 1.0
Frace Impurities – Gallium (Ga)	<= 50.0 ppb	< 1.0
Frace Impurities – Germanium (Ge)	<= 50.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 20.0 ppb	< 5.0

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Trace Impurities – Iron (Fe)	<= 50.0 ppb	2.7
Trace Impurities - Lead (Pb)	<= 50.0 ppb	< 1.0
Trace Impurities – Lithium (Li)	<= 50.0 ppb	< 1.0
Trace Impurities – Magnesium (Mg)	<= 50.0 ppb	1.9
Trace Impurities – Manganese (Mn)	<= 10.0 ppb	< 1.0
Trace Impurities - Molybdenum (Mo)	<= 300.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 10.0 ppb	< 5.0
Trace Impurities – Potassium (K)	<= 50.0 ppb	< 10.0
Trace Impurities - Silicon (Si)	<= 50.0 ppb	< 10.0
Trace Impurities – Silver (Ag)	<= 20.0 ppb	< 1.0
Trace Impurities – Sodium (Na)	<= 50.0 ppb	16.6
Trace Impurities – Strontium (Sr)	<= 10.0 ppb	< 1.0
Trace Impurities – Tin (Sn)	<= 50.0 ppb	< 10.0
Trace Impurities – Titanium (Ti)	<= 20.0 ppb	< 1.0
Trace Impurities – Vanadium (V)	<= 300.0 ppb	< 1.0
Trace Impurities – Zinc (Zn)	<= 50.0 ppb	40.0
Trace Impurities – Zirconium (Zr)	<= 300.0 ppb	< 1.0
Particle Count - 0.5 µm and greater	<= 100 par/ml	15
Particle Count - 1.0 µm and greater	<= 8 par/ml	6

For Microelectronic Use

Country of Origin: VE

Packaging Site: Paris Mfg Ctr & DC

