

Certificate of Analysis



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FORM NO. FRM-01888 Rev1

Description: Isopropyl Alcohol

Item Code: 200-0289 **Packaging Size:** 200LT Drum

Batch No: IP0907245611 **Customer/CMC spec:** KMG_1033.1

Manufacture Date: 09-Jul-2024 **Customer Part Number:** NA

Expiry Date: 09-Jul-2025 **Grade:** SULSI

Parameter	Min	Max	Unit	Result
Assay (IPA)	99.9		%	99.9
Specific Gravity @ 20 °C	0.7860	0.7870		0.7865
Color		10	APHA	<5
Acidity (as CH ₃ COOH)		10	ppm	<5
Residue After Evaporation		2	ppm	<1
Water		500	ppm	<100
Chloride (Cl)		10	ppb	<1
Nitrate (NO ₃)		10	ppb	<1
Phosphate (PO ₄)		10	ppb	<1
Sulfate (SO ₄)		10	ppb	<1
0.5µ Particle Count		100	par/ml	<10
Solubility (in H ₂ O)				PASS
Aluminum (Al)		1.0	ppb	<0.1
Arsenic (As)		1.0	ppb	<0.1
Barium (Ba)		1.0	ppb	<0.1
Boron (B)		1.0	ppb	<0.1
Cadmium (Cd)		1.0	ppb	<0.1
Calcium (Ca)		2.0	ppb	<0.2
Chromium (Cr)		1.0	ppb	<0.1
Cobalt (Co)		1.0	ppb	<0.1
Copper (Cu)		1.0	ppb	<0.1
Gallium (Ga)		1.0	ppb	<0.1
Germanium (Ge)		1.0	ppb	<0.1
Gold (Au)		1.0	ppb	<0.1
Iron (Fe)		5.0	ppb	<0.5
Lead (Pb)		1.0	ppb	<0.1
Lithium (Li)		1.0	ppb	<0.1

Parameter	Min	Max	Unit	Result
Magnesium (Mg)		1.0	ppb	<0.1
Manganese (Mn)		1.0	ppb	<0.1
Nickel (Ni)		1.0	ppb	<0.1
Potassium (K)		1.0	ppb	<0.1
Silver (Ag)		1.0	ppb	<0.1
Sodium (Na)		5.0	ppb	<1.0
Strontium (Sr)		1.0	ppb	<0.1
Tin (Sn)		1.0	ppb	<0.1
Zinc (Zn)		1.0	ppb	<0.1

Solubility (in H2O) PASS = Clear

Approved on: 02-Aug-2024

This certificate of analysis is electronically issued and is valid without signature