

**Certificate of Analysis**

**Product: Organic Ethyl Alcohol, Sugar Cane, 190 Proof, Kosher, Halal**

**Item Number: EAOS190**

**Grade: FCC**

**Lot Number: 5002069/1.1**

**Manufacture Date: 01/20/2026**

**Expiration Date: 01/19/2029**

**Country of Origin: United States**

<b>Tested Property</b>	<b>Specification</b>	<b>Analysis</b>
Solubility	No haze or turbidity develops	Pass
Assay, by Specific Gravity @ 25°C	NLT 94.9%	95.01
Specific Gravity @ 15.56°C	NMT 0.8161	0.8157
Specific Gravity @ 25.0°C	NMT 0.8096	0.8092
Proof	As reported	190.0
Acidity (as Acetic Acid)	NMT 0.5mL of 0.02N NaOH to restore pink color	Pass
Alkalinity (as NH3)	NMT 0.2 mL of 0.02N Sulfuric Acid to restore red color	Pass
Org. Imp. - Fusel Oil	No foreign odor when last traces of alcohol leaves paper	Pass
Id by Infrared Absorption	Conforms to IR Spectra	Pass
Organic Imp. - Ketones, Isopropyl Alcohol	No precipitate within 3 min.	Pass
Inorganic Imp. - Lead	NMT 0.5 mg/kg	<0.5
Organic Imp. - Methanol	Max 200 ppm	2
Nonvolatile Residue	NMT 0.003%	0.000
Organic Imp. - Any Other Single Impurity	Max 1000 ppm	1
Organic Imp. - Subst. Dark. by Sulf. Acid Mixture is colorless or has no more color than the sample or acid before mixing		Pass
Organic Imp. - Sum of All Imp.	Max 5000 ppm	0
Organic Imp. - Subst. Red. Permang.	Pink color does not entirely disappear	Pass

CAS RN: 64-17-5

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