

Certificate of Analysis

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

Item Number: EAOS190

Grade: FCC

Lot Number: 5002069/1.3

Manufacture Date: 02/17/2026

Expiration Date: 02/16/2029

Country of Origin: United States

Tested Property	Specification	Analysis
Solubility	No haze or turbidity develops	Pass
Assay, by Specific Gravity @ 25°C	NLT 94.9%	95.02
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 NH ₃)	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	0
Nonvolatile Residue	NMT 0.003%	0.000
Organic Imp. - Any Other Single Impurity	Max 1000 ppm	5
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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