

**Certificate of Analysis**

**Product: Organic Ethyl Alcohol, Sugar Cane, 190 Proof Kosher, Halal, FCC**  
**Item Number: EAOS190**  
**CAS#: 64-17-5**  
**Grade: FCC**  
**Lot Number: 5002191/1.1**  
**Manufacture Date: 03/19/2026**  
**Expiration Date: 03/18/2028**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Solubility in Water	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
Org. Imp. - Ketones, Isopropyl Alcohol	No precipitate within 3 min.	Pass
Inorg. Imp. - Lead	NMT 0.5 mg/kg	<0.5
Org. Imp. - Methanol	Max 200 ppm	0
Nonvolatile Residue	NMT 0.003%	0.000
Org. Imp. - Any Other Single Impurity	Max 1000 ppm	7
Org. Imp. - Subst. Dark. by Sulf. Acid	Mixture is colorless or has no more color than the sample or acid before mixing	Pass
Org. Imp. - Sum of All Imp.	Max 5000 ppm	0
Org. Imp. - Subst. Red. Permang.	Pink color does not entirely disappear	Pass

Store in a cool, dry, and well-ventilated environment away from heat and direct sunlight.

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