LAB ALLEY
ESSENTIAL CHEMICALS

## Certificate of Analysis

**Product: Organic Ethyl Alcohol, Sugar Cane, 190 Proof Kosher, Halal, FCC**
**Item Number: EAOS190TXPD**
**CAS#: 64-17-5**
**Grade: FCC**
**Lot Number: 5002747/2.2**
**Manufacture Date: 10/23/2026**
**Expiration Date: 10/22/2029**
**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 0.2mL 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 mg/kg |
| Org. Imp. - Methanol | Max 200 ppm | 0 ppm |
| Nonvolatile Residue | NMT 0.003% | 0.000% |
| Org. Imp. - Any Other Single Impurity | Max 1000 ppm | 8 ppm |
| 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 ppm |
| 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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Organic Ethyl Alcohol, Sugar Cane, 190 Proof Kosher, Halal, FCC

Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

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