

**Certificate of Analysis**

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

**Item Number: EAOS190**

**Grade: FCC**

**Lot Number: 5001720/1.4**

**Manufacture Date: 10/11/2025**

**Expiration Date: 10/10/2028**

**Country of Origin: Paraguay**

Tested Property	Specification	Analysis
Appearance, USP	Ethyl Alcohol is a clear, colorless and mobile liquid	Pass
Solubility, USP	Miscible with water, ether and chloroform	Pass
	Boils at approx. 78°C, flammable	Pass
	Refractive index is approx. 1.364	Pass
ID, Infrared Spectra, USP	Same relative maxima wavelengths as sample spectrum	Pass
Specific Gravity, USP	NMT 0.8096 @ 25°C/25°C (8.161 @ 15.56°C/15.56°C)	0.8085
	Not less than 94.9 v/v% (92.3 w/v%) of C <sub>2</sub> H <sub>6</sub> O	Pass
Org. Impurities, Fusel Oil, USP	No off-odor when alcohol leaves paper	Pass
Org. Impurities, Acetones, Isopropyl Alc., USP	No precipitate in 3 min.	Pass
Org. Impurities, Methanol, USP	NMT 200 µL/L	12
Org. Impurities, Any Other Ind. Volatile, USP	NMT 1000 µL/L	139
Org. Impurities, Sum of all Impurities, USP	NMT 5000 µL/L	220
Subst. darkened by Sulf. Acid, USP	Colorless mixture	Pass
Permanganate Reducing Subst., USP	Pink color does not totally disappear	Pass
Acidity (Acetic Acid), USP	NMT 0.5mL of 0.02N NaOH to restore pink color	0.2
Alkalinity (NH <sub>3</sub> ), USP	NMT 0.2mL of 0.02N Sulf. Acid to restore red color	<0.2
Non-volatile Residue, USP	NMT 0.003%	<0.001
Water Solubility, USP	No turbidity or opacity develops	Pass

CAS RN: 64-17-5

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