

Certificate of Analysis

Product: Ethanol 190 Proof (95%) Non-Denatured, Pure Alcohol

Item Number: EAPHPLC190

CAS#: 64-17-5, 7732-18-5

Grade: HPLC

Lot Number: 5002235/1.1

Manufacture Date: 04/17/2026

Expiration Date: 04/16/2029

Country of Origin: United States

Tested Property	Specification	Analysis
Assay by GC (Corrected for Water)	Min 95.0%	95.01
Color APHA	Max 10	1
Solubility in Water	To Pass Test	Passes
Residue after Evaporation	Max 0.001%	0.000
Acetone/Isopropyl Alcohol	To Pass Test	Passes
Titration Acid	Max 0.0005 meq/g	0.0002
Titration Base	Max 0.0002 meq/g	0.0001
Methanol	Max 0.1%	Passes
Substances Darkened by Sulfuric Acid	To Pass Test	Passes
Substances Reducing Permanganate	To Pass Test	Passes
UV Absorbance	Max 0.01 AU @ 270-400 nm	0.01
	Max 0.05 AU @ 240 nm	0.04
	Max 0.15 AU @ 230 nm	0.09
	Max 0.25 AU @ 220 nm	0.17
	Max 0.40 AU @ 210 nm	0.33
Specific Gravity	0.8120 - 0.8160 @ 15.56°C	0.8157
Proof	As reported	190.0
Assay (by specific gravity @ 15.56°C)	94.9% - 96.0% v/v	95.01
Acidity or Alkalinity	The solution is pink	Pass
	30µL/L, expressed as acetic acid	Pass

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Clarity of Solution	The solutions have same clarity as water, or the solutions do not have more opalescence than Standard suspension A	Pass
ID A: Specific Gravity	Meets the requirements	Pass
ID B: Infrared Spectroscopy	Conforms to IR Spectra	Pass
ID C: Limit of Methanol	NMT 200µL/L (200 ppm) of Methanol	Pass
Limit of Nonvolatile Residue	NMT 2.5 mg	0.0
Org. Imp. Acetaldehyde and Acetal	NMT 10µL/L, expressed as acetaldehyde	1
Org. Imp. Benzene	NMT 2µL/L	0
Org. Imp. Methanol	NMT 200µL/L	1
Org. Imp. Sum of all other Imp.	NMT 300µL/L	0
UV Absorbance	The spectrum is a steadily descending curve with no peaks or shoulders	Pass

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

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