



12400 Belden Ct  
Livonia, MI 48150

## Certificate of Analysis

**Product:** Ethanol 190 Proof  
**Lot Number:** 122625811-190  
**Date:** 01-28-2026

### Analytical Results

Test Performed	Method	Specification	Results
Proof	ASTM D-4052	Min 190	191.5
Specific Gravity 60°F	ASTM D-4052	Max 0.8160	0.8128
% Ethanol by Volume	ASTM D-4052	Min 94.9%	95.82
Clarity of Solution	USP	Pass	Pass
Color, Pt-Co	Visual	Less than 5	3
Appearance	Visual	Clear	Clear
Odor	Organoleptic	Clean; neutral	Clean; neutral
Nonvolatile Matter, g/100mL	USP	Max 0.0025	0.0012
Acidity	ASTM D-1613	Max 0.0025	0.0015
Ultraviolet Absorbance (240nm)	USP	NMT 0.4	0.127
Ultraviolet Absorbance (250-260nm)	USP	NMT 0.3	0.041
Ultraviolet Absorbance (270-340nm)	USP	NMT 0.1	0
Acetaldehyde	GC-FID	Less than 2 ppm	0
Methanol	GC-FID	Less than 1 ppm	0
Esters (as Ethyl Acetate)	GC-FID	Less than 1 ppm	0
Propanols	GC-FID	Less than 1 ppm	0
Benzene	GC-FID	Non-Detect	0
Amyl Alcohols	GC-FID	Less than 2 ppm	0
Sum of All Other Impurities	GC-FID	Less than 1 ppm	0
Permanganate Time, min.	USP	≥ 40 minutes	≥ 40 minutes

The above results are representative of the lot analyzed and conform to USA Lab specifications.