LAB ALLEY
ESSENTIAL CHEMICALS

## Certificate of Analysis

**Product: Ethanol 190 Proof (95%) Non-Denatured Alcohol, Kosher, Halal**
**Item Number: EAP190**
**CAS#: 64-17-5, 7732-18-5**
**Grade: USP/FCC**
**Lot Number: 5002214/1.1-190-102626**
**Manufacture Date: 10/26/2026**
**Expiration Date: 10/25/2028**
**Country of Origin: United States**

| Tested Property | Specification | Analysis |
|---|---|---|
| Appearance | Bright and clear, free of suspended matter | Passes |
| Color of Solution | Passes test | Passes |
| Ethyl Alcohol, % Vol | 94.9 - 96.0 | 95.1 |
| Ethyl Alcohol, % Wt | 92.3 - 93.8 | 92.6 |
| Identification Test (IR) | Passes test | Pass |
| Proof | 189.8 - 192.0 | 190.2 |
| Odor | Characteristic ethanol | Passes |
| Clarity of Solution | Passes test | Pass |
| Acidity or Alkalinity | Passes test (<30 ppm as acetic acid) | <30 ppm |
| Limit of Nonvolatile Residue | <2.5 mg/100ml | <2.5 mg/100ml |
| Ultraviolet Absorption | Passes test | Pass |
| Organic Impurities: Benzene | <2 ppm | <2 ppm |
| Organic Impurities: Acetaldehyde and Acetal | <10 ppm | <10 ppm |
| Organic Impurities: Methanol | <200 ppm | <200 ppm |
| Organic impurities: Other impurities | <300 ppm | <300 ppm |
| Specific Gravity @ 60°F (15.5°C) | 0.812 - 0.816 | 0.815 |

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

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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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