

Certificate of Analysis

Product: Methanol 99%
Item Number: MAHPLC
Grade: HPLC
Lot Number: 5000787/1.1
Manufacture Date: 06/13/2024
Expiration Date: 06/12/2029
Country of Origin: United States

| Tested Property | Specification | Analysis |
|--------------------------------------|-------------------------------|---------------|
| Carbonyl Compounds - Acetaldehyde | 0.001% max | < 0.001% |
| Carbonyl Compounds - Acetone | 0.001% max | None detected |
| Appearance | To pass the test | Pass |
| Assay (corrected for water) | 99.8% min | 99.93 |
| Color (APHA) | 10 max | 1 |
| Carbonyl Compounds - Formaldehyde | 0.001% max | < 0.001% |
| Residue on Evaporation | 0.001% max | 0.000 |
| Solubility in Water | To Pass Test | Pass |
| Substances Darkened by Sulfuric Acid | To Pass Test | Pass |
| Substances Reducing Permanganate | To Pass Test | Pass |
| Titration Acid | 0.0003 meq/g max. | 0.0002 |
| Water | < 0.1% | 0.09 |
| UV Absorption @205nm | 1.00 max. | 0.83 |
| UV Absorption @210nm | 0.80 max. | 0.45 |
| UV Absorption @220nm | 0.40 max. | 0.21 |
| UV Absorption @230nm | 0.20 max. | 0.10 |
| UV Absorption @240nm | 0.10 max. | 0.04 |
| UV Absorption @260nm | 0.04 max. | 0.01 |
| UV Absorption @280nm - 400 nm | 0.01 max. | 0.00 |
| Acidity | < 0.45mL 0.020N NaOH required | 0.20 |

Phone: 512-668-9918, Fax: 512-886-4008,
 E-mail: Customerservice@laballey.com,
www.laballey.com,

12501 Pauls Valley Road, Suite A, Austin, Texas 78737.

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|--|---|--------|
| Alkalinity (as NH ₄) | < 0.20mL 0.020N H ₂ SO ₄ required (3 ppm max) | 0.10 |
| Identification A (Infrared Absorption) | To Pass Test | Pass |
| Identification B (GC Analysis) | To Pass Test | Pass |
| Non -Volatile Residue | < 2mg (0.001% w/w) | 0 |
| Readily Carbonizable Substances | To Pass Test | Pass |
| Readily Oxidizable Substances | To Pass Test | Pass |
| Titration base | 0.0002 meq/g max. | 0.0001 |

Methanol 99%

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