

### Certificate of Analysis

**Product: Methanol 99%**  
**Item Number: MAHPLC**  
**Grade: HPLC**  
**Lot Number: 5000570/1.2**  
**Manufacture Date: 03/13/2024**  
**Expiration Date: 03/12/2029**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Carbonyl Compounds - Acetaldehyde	0.001% max	< 0.001%
Carbonyl Compounds - Acetone	0.001% max	< 0.001%
Appearance	To pass the test	Pass
Assay (corrected for water)	99.8% min	99.95
Color (APHA)	10 max	0
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.	0.0003
Water	< 0.1%	0.03
UV Absorption @205nm	1.00 max.	0.88
UV Absorption @210nm	0.80 max.	0.48
UV Absorption @220nm	0.40 max.	0.23
UV Absorption @230nm	0.20 max.	0.11
UV Absorption @240nm	0.10 max.	0.05
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	0.15

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Alkalinity (as NH <sub>4</sub> )	< 0.20mL 0.020N H <sub>2</sub> SO <sub>4</sub> required (3 ppm max)	0.05
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%

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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