

### Certificate of Analysis

**Product: Methanol 99%**  
**Item Number: MAL**  
**Grade: Lab**  
**Lot Number: 5000366/2.1**  
**Manufacture Date: 08/28/2023**  
**Expiration Date: 08/27/2025**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Purity	Min 99.99 wt%	99.99
Color, Pt-Co	Max 10	<5
Odor	Characteristic	Pass
Water Content	Max 0.10 wt%	0.026
Acidity as Acetic Acid	Max 30 mg/kg	8
Alkalinity	Max 0.0003 wt%	<0.0001
Specific Gravity @ 20/20°C	0.7910 - 0.7930	0.7926
Non volatile matter, mg/100ml	Max 8	3
Potassium Permanganate time, minutes	>60 minutes	>60
Carbonizable substances	Max 50, Pt-Co Scale	8
Acetone	<30 ppm	<5
Boiling range	Max 1.0°C	0.5°C
IBP @ 760 mm Hg	Max 64.7°C	64.5°C
FBP @ 760 mm Hg	Min 64.5°C	65.0°C
Ethanol	Max 50 ppm	<5
Total Sulfur	Max 0.5 ppm	<0.5
Iron	Max 0.1 ppm	<0.01
Chlorides	Max 0.5 mg/kg	<0.25
Hydrocarbons	As reported	Pass

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