

Certificate of Analysis

Product: Methanol 99%
Item Number: MAL
Grade: Lab
Lot Number: 163325
Manufacture Date: 03/31/2023
Expiration Date: 03/30/2026
Country of Origin: United States

Tested Property	Specification	Analysis
Appearance	Clear & free of suspended matter	Pass
Color, Pt-Co Scale	Max 5	<5
Purity on dry basis	Min 99.85 wt%	99.99
Water	Max 0.100 wt%	0.007
Specific Gravity @ 20/20°C	0.7910 - 0.7930	0.7927
Potassium Permanganate	Min 60 minutes	>60
Carbonizables	Max 30 at Pt-Co Scale	<5
Acetone	Max 30 mg/kg	<5
Acidity as Acetic Acid	Max 30 mg/kg	8
Water Miscibility	To pass the test	Pass
Non-volatile matter	Max 8 mg/1000ml	3
Ethanol	Max 50 mg/kg	<5
Chloride	Max 0.5 mg/kg	<0.25
Sulfur	Max 0.5 mg/kg	<0.5
Iron in solution	Max 0.10 mg/kg	<0.01
Boiling range	Max 1.0°C	0.3°C
IBP at 760 mm Hg	Max 64.7°C	64.2°C
FBP at 760 mm Hg	Min 64.5°C	64.5°C
Odor	Characteristic	Pass
Alkalinity	Max 0.0003 wt%	<0.0001

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