

### Certificate of Analysis

**Product: Methanol**  
**Item Number: MAA**  
**Grade: ACS/USP/NF**  
**Lot Number: 220125-B013533**  
**Manufacture Date: 01/14/2022**  
**Expiration Date: 01/13/2027**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Assay, (corrected for water)	Min 99.8%	99.99
Carbonyl Compounds - Acetaldehyde	Max 0.001%	<0.001
Carbonyl Compounds - Acetone	Max 0.001%	None detected
Appearance	To Pass Test	Pass
Color (APHA)	Max 10	1
Carbonyl Compounds - Formaldehyde	Max 0.001%	< 0.001
Residue on Evaporation	Max 0.001%	0.001
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	Max 0.0003 meq/g	0.0002
Titration Base	Max 0.0002 meq/g	0.0001
Water	<0.1%	0.01
Acetone and Aldehydes (as Acetone)	<0.003%	<0.003
Acidity	<0.45mL 0.020N NaOH required	0.25ml
Alkalinity (as NH <sub>4</sub> )	<0.20mL 0.020N H <sub>2</sub> SO <sub>4</sub> required (3ppm max)	0.10ml
Assay by NF	>99.5%	100.00
Identification A (infrared Absorption), NF	To Pass Test	Pass
Identification B (GC Analysis), NF	To Pass Test	Pass
Non - Volatile Residue, NF	< 2mg (0.001% w/w)	0

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**LAB ALLEY**  
ESSENTIAL CHEMICALS



Readily Carbonizable Substances, NF	To Pass Test	Pass
Readily Oxidizable Substances, NF	To Pass Test	Pass
Water, NF	<0.1%	0.01

### Methanol

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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