

# Certificate of Analysis

## Methanol, HPLC Grade

Lot Number: 1404H72

Product Number: R4828000

Date Packaged: MAR 28, 2024

Recommended Retest Date: FEB 2029

**Contains**CH<sub>3</sub>OH CAS No. 67-56-1 MW 32.04

Test	Specification	Result
Absorbance	To Pass Test	Passed
Acetone	max 0.001 %	0 %
Assay	min 99.90	99.95 %
Carbonyl Compounds: Acetaldehyde	max 0.001 %	0.001 %
Color (APHA)	max 10	1
Formaldehyde (HCHO)	max 0.001 %	0.001 %
LC Suitability (Gradient Elution Test)	To Pass Test	Passed
Residue after evaporation (Non-Volatile Matter)	max 0.001 %	0 %
Solubility in Water	To Pass Test	Passed
Substances Darkened by Sulfuric Acid	To Pass Test	Passed
Substances Reducing Permanganate	To Pass Test	Passed
Titration Acid	max 0.0003	0.0002 meq/g
Titration Base	max 0.0002	0.0001 meq/g
Water (H <sub>2</sub> O)	max 0.1	0.04 %

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type
R4828000-4C	4 L amber glass

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)



Heidi J Green (03/28/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --  
Contents of Certificates and Labels."

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