

## Certificate of Analysis

Date of Testing: 2022-03-21 09:46:04  
Date of Next Testing: 2026-03-20 09:46:04  
Product Name: **Methanol**  
CAS Number: 67-56-1  
Specifications & Purity: Analytical Reagent,99.5%  
Lot #: C2218648  
SKU #: **M116115**  
Analysis: **074297**

| Parameter                                     | Limit Values        | Result              |
|---|---------------------|---------------------|
| Acidity(as H <sup>+</sup> )                   | 0-0.4 (μmol/g)      | 0.00 μmol/g         |
| alkalinity(as OH <sup>-</sup> )               | 0-0.08 (μmol/g)     | 0.00 μmol/g         |
| Refractive index n <sub>20</sub> /D           | 1.327-1.333         | 1.33                |
| Water by Karl Fischer                         | 0-0.1 (%)           | 0.01 %              |
| Assay   | 99.5-100(%)         | 99.90 %             |
| Evaporation Residue                           | 0-0.001 (%)         | 0.00 %              |
| Carbonyl compounds                            | 0-0.005 (%)         | 0.00 %              |
| Potassium permanganate reducing substances(O) | 0-0.0005 (%)        | 0.00 %              |
| Density (20°C)                                | 0.791-0.793 (g/ml)  | 0.79 g/ml           |
| Appearance (M116115)                          | Colorless liquid    | Colorless liquid    |
| Readily carbonizable substance                | pass                | Pass                |
| Solubility in H <sub>2</sub> O                | Almost transparency | almost transparency |



John Su  
QA & QC Manager