



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : METHANOL AR**

**CAS No : 67-56-1**  
**Mol. Formula : CH<sub>3</sub>OH**  
**Mol. WT : 32.04**  
**Date of analysis : 09/08/24**

**Product code : 24260**  
**Batch No. : MCAR-00470**  
**Mfd. : Aug. 2024**  
**Exp. : July 2029**

| S.R | Test                                                    | Specification                                                                            | Observation                                                                          |
|-----|---------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1   | Description                                             | A clear colourless liquid with a characteristic odour. APHA not more than 10 Hazen unit. | A clear colourless liquid with a characteristic odour. APHA less than 10 Hazen unit. |
| 2   | Assay (GC)                                              | 99.5 % min                                                                               | 99.95%                                                                               |
| 3   | Refractive index (n <sup>20</sup> <sub>D</sub> )        | 1.328 – 1.331                                                                            | 1.330                                                                                |
| 4   | Wt. per ml (at 20 <sup>o</sup> c)                       | 0.790-0.792g                                                                             | 0.791 g                                                                              |
| 5   | Water(by KF)                                            | 0.1% max                                                                                 | 0.048%                                                                               |
| 6   | Acidity(CH <sub>3</sub> COOH)                           | 0.001 % max                                                                              | < 0.001 %                                                                            |
| 7   | Alkalinity(NH <sub>3</sub> )                            | 0.0003% max                                                                              | < 0.0003%                                                                            |
| 8   | Non Volatile Matter                                     | 0.001% max                                                                               | 0.0004%                                                                              |
| 9   | Ethanol (C <sub>2</sub> H <sub>5</sub> OH) (GC)         | 0.1 % max                                                                                | <0.1%                                                                                |
| 10  | Organic Impurities                                      | Passes test                                                                              | Passes test                                                                          |
| 11  | Aldehydes & Ketones (CH <sub>3</sub> ) <sub>2</sub> CO) | 0.005 % max                                                                              | < 0.005 %                                                                            |
| 12  | Substances reducing Permanganate                        | 0.00025 % max                                                                            | < 0.00025 %                                                                          |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**CHEMIST  
(Ruchi)**

**[QC Incharge]**

**HEAD-QUALITY ASSURANCE  
(G.G.Salian)**

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