



## 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 : 14/10/23**

**Product code : 24260**  
**Batch No. : MCRT-29510**  
**Mfd. : Oct. 2023**  
**Exp. : Sept. 2028**

| S.R | Test                                                           | Specification                                                                            | Observation                                                                          |
|-----|----------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1   | <b>Description</b>                                             | 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   | <b>Assay (GC)</b>                                              | 99.5 % min                                                                               | 99.96%                                                                               |
| 3   | <b>Refractive index (n<sup>20</sup><sub>D</sub>)</b>           | 1.328 – 1.331                                                                            | 1.330                                                                                |
| 4   | <b>Wt. per ml (at 20<sup>o</sup>c)</b>                         | 0.790-0.792g                                                                             | 0.792g                                                                               |
| 5   | <b>Water(by KF)</b>                                            | 0.1% max                                                                                 | 0.04%                                                                                |
| 6   | <b>Acidity(CH<sub>3</sub>COOH)</b>                             | 0.001 % max                                                                              | < 0.001 %                                                                            |
| 7   | <b>Alkalinity(NH<sub>3</sub>)</b>                              | 0.0003% max                                                                              | < 0.0003%                                                                            |
| 8   | <b>Non Volatile Matter</b>                                     | 0.001% max                                                                               | 0.0008%                                                                              |
| 9   | <b>Ethanol (C<sub>2</sub>H<sub>5</sub>OH) (GC)</b>             | 0.1 % max                                                                                | <0.1%                                                                                |
| 10  | <b>Organic Impurities</b>                                      | Passes test                                                                              | Passes test                                                                          |
| 11  | <b>Aldehydes &amp; Ketones (CH<sub>3</sub>)<sub>2</sub>CO)</b> | 0.005 % max                                                                              | < 0.005 %                                                                            |
| 12  | <b>Substances reducing Permanganate</b>                        | 0.00025 % max                                                                            | < 0.00025 %                                                                          |

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

**[Tested By]**

**[QC Incharge]**

**CHEMIST**  
**(Priti)**

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

**Note:** Computer generated image requires no sign.

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