



## **CERTIFICATE OF ANALYSIS**

**PRODUCT NAME : GLYCEROL AR**

**CAS No : 56-81-5**

**Mol. Formula : C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>**

**Mol. wt : 92.09**

**Date of analysis : 05/12/23**

**Product code : 23420**

**Batch No. : MCRT-29839**

**Mfd. : Dec. 2023**

**Exp. : Nov. 2028**

| S.R | Test                                            | Specification                                                         | Observation                                                      |
|-----|-------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------|
| 1   | Description                                     | Clear colourless viscous liquid, Colour not more than 20 Hazen units. | Clear colourless viscous liquid, Colour less than 20 Hazen unit. |
| 2   | Assay (GC)                                      | 99 % min                                                              | 99.45%                                                           |
| 3   | Wt. per ml (at 20 <sup>0</sup> c)               | 1.257-1.261g                                                          | 1.257g                                                           |
| 4   | Refractive index                                | 1.471 – 1.473                                                         | 1.472                                                            |
| 5   | Reaction pH                                     | 6.0 -7.0                                                              | 6.50                                                             |
| 6   | Sulphated ash                                   | 0.005% max                                                            | 0.004%                                                           |
| 7   | Chloride (Cl)                                   | 0.0001% max                                                           | < 0.0001%                                                        |
| 8   | Sulphate (SO <sub>4</sub> )                     | 0.0005% max                                                           | < 0.0005%                                                        |
| 9   | Ammonium (NH <sub>4</sub> )                     | 0.0005% max                                                           | < 0.0005%                                                        |
| 10  | Arsenic (As)                                    | 0.00004% max                                                          | < 0.00004%                                                       |
| 11  | Copper (Cu)                                     | 0.00005% max                                                          | < 0.00005%                                                       |
| 12  | Iron (Fe)                                       | 0.00005% max                                                          | < 0.00005%                                                       |
| 13  | Lead (Pb)                                       | 0.00005% max                                                          | < 0.00005%                                                       |
| 14  | Ester of volatile acids (glycerol tributyrates) | Passes Test                                                           | Passes Test                                                      |
| 15  | Fatty acids                                     | Passes Test                                                           | Passes Test                                                      |
| 16  | Organic impurities                              | Passes Test                                                           | Passes Test                                                      |
| 17  | Reducing substances                             | No reaction                                                           | No reaction                                                      |
| 19  | Sugar (glucose)                                 | 0.004% max                                                            | < 0.004%                                                         |

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

**[Tested By]**

**[QC Incharge]**

**CHEMIST  
(Jyoti)**

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

Note: Computer generated image requires no sign

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