

## 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 : 24/05/25**

**Product code : 23420**  
**Batch No. : MCAR-01636**  
**Mfd. : May 2025**  
**Exp. : April 2030**

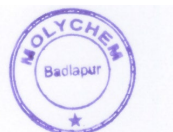
| S.R | Test                                                 | Specification                                                         | Observation                                                      |
|-----|------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------|
| 1   | <b>Description</b>                                   | Clear colourless viscous liquid, Colour not more than 20 Hazen units. | Clear colourless viscous liquid, Colour less than 20 Hazen unit. |
| 2   | <b>Assay (GC)</b>                                    | 99 % min                                                              | 99.24%                                                           |
| 3   | <b>Wt. per ml (at 20<sup>0</sup>c)</b>               | 1.257-1.261g                                                          | 1.258g                                                           |
| 4   | <b>Refractive index</b>                              | 1.471 – 1.473                                                         | 1.472                                                            |
| 5   | <b>Reaction pH</b>                                   | 6.0 -7.0                                                              | 6.39                                                             |
| 6   | <b>Sulphated ash</b>                                 | 0.005% max                                                            | 0.004%                                                           |
| 7   | <b>Chloride (Cl)</b>                                 | 0.0001% max                                                           | < 0.0001%                                                        |
| 8   | <b>Sulphate (SO<sub>4</sub>)</b>                     | 0.0005% max                                                           | < 0.0005%                                                        |
| 9   | <b>Ammonium (NH<sub>4</sub>)</b>                     | 0.0005% max                                                           | < 0.0005%                                                        |
| 10  | <b>Arsenic (As)</b>                                  | 0.00004% max                                                          | < 0.00004%                                                       |
| 11  | <b>Copper (Cu)</b>                                   | 0.00005% max                                                          | < 0.00005%                                                       |
| 12  | <b>Iron (Fe)</b>                                     | 0.00005% max                                                          | < 0.00005%                                                       |
| 13  | <b>Lead (Pb)</b>                                     | 0.00005% max                                                          | < 0.00005%                                                       |
| 14  | <b>Ester of volatile acids (glycerol tributyrat)</b> | Passes Test                                                           | Passes Test                                                      |
| 15  | <b>Fatty acids</b>                                   | Passes Test                                                           | Passes Test                                                      |
| 16  | <b>Organic impurities</b>                            | Passes Test                                                           | Passes Test                                                      |
| 17  | <b>Reducing substances</b>                           | No reaction                                                           | No reaction                                                      |
| 19  | <b>Sugar (glucose)</b>                               | 0.004% max                                                            | < 0.004%                                                         |

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

**[Tested By]**



**CHEMIST  
(Deepa)**



**[QC Incharge]**



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

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