



## **CERTIFICATE OF ANALYSIS**

Date : 29/10/12

**PRODUCT NAME : GLYCEROL GR**

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

**Product code : 23420**

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

**Batch No : MCRT-5941**

**Mol. WT : 92.09**

**Mfd. : Oct. 2012**

| S. R | Test                                           | Specification | Observation |
|------|------------------------------------------------|---------------|-------------|
| 1    | Assay (GC)                                     | 99 % min      | 99.41%      |
| 2    | Wt.per ml (at 20 <sup>0</sup> c)               | 1.257-1.261 g | 1.257g      |
| 3    | Refractive index                               | 1.471-1.473   | 1.472       |
| 4    | Reaction pH                                    | 6.0-7.0       | 6.05        |
| 5    | Sulphated ash                                  | 0.005%max     | 0.004%      |
| 6    | Chloride (Cl)                                  | 0.0001% max   | <0.0001%    |
| 7    | Sulphate (SO <sub>4</sub> )                    | 0.0005% max   | <0.0005%    |
| 8    | Ammonium (NH <sub>4</sub> )                    | 0.0005% max   | <0.0005%    |
| 9    | Arsenic (As)                                   | 0.00004% max  | <0.00004%   |
| 10   | Copper (Cu)                                    | 0.00005% max  | <0.00005%   |
| 11   | Iron (Fe)                                      | 0.00005% max  | <0.00005%   |
| 12   | Lead (Pb)                                      | 0.00005% max  | <0.00005%   |
| 13   | Ester of volatile acids (glycerol tributyrate) | passes test   | passes test |
| 14   | Fatty acids                                    | passes test   | passes test |
| 15   | Organic Impurities                             | passes test   | passes test |
| 16   | Reducing substances                            | No reaction   | No reaction |
| 17   | Sugar (glucose)                                | 0.004% max    | <0.004%     |

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

**[Tested By]**

**[Q.C Incharge]**

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

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

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