

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : ETHANOLAMINE (MONO) 99% LR**  
(2-aminoethanol, monoethanolamine)

**CAS No. : 141-43-5**  
**Mol. Formula : C<sub>2</sub>H<sub>7</sub>NO**  
**Mol. WT : 61.08**  
**Date of analysis : 14/10/23**

**Product code : 14324**  
**Batch No. : MCR-29519**  
**Mfd. : Oct. 2023**  
**Exp. : Sept. 2028**

| S.R | Test                                                 | Specification                                                                | Observation                                                   |
|-----|------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1   | <b>Description</b>                                   | Colourless to pale yellow viscous liquid with ammoniacal odour, hygroscopic. | Colourless viscous liquid with ammoniacal odour, hygroscopic. |
| 2   | <b>Assay</b>                                         | 99% min                                                                      | 99.39%                                                        |
| 3   | <b>Wt. per ml (at 20<sup>0</sup>c)</b>               | 1.015 - 1.018g                                                               | 1.018g                                                        |
| 4   | <b>Refractive index (n)<sup>20</sup><sub>D</sub></b> | 1.4535 - 1.4545                                                              | 1.4537                                                        |
| 5   | <b>Sulphated ash</b>                                 | 0.05% max                                                                    | 0.005%                                                        |

**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.