

## CERTIFICATE OF ANALYSIS

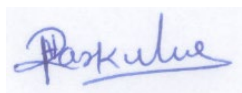
**PRODUCT NAME : DIETHANOLAMINE LR**

|                         |                                                  |                     |             |
|-------------------------|--------------------------------------------------|---------------------|-------------|
| <b>CAS No</b>           | : 111-42-2                                       | <b>Product code</b> | : 14145     |
| <b>Formula</b>          | : C <sub>4</sub> H <sub>11</sub> NO <sub>2</sub> | <b>Batch No</b>     | : MCR-33247 |
| <b>Mol. WT</b>          | : 105.14                                         | <b>Mfd.</b>         | : Feb. 2025 |
| <b>Date of Analysis</b> | : 18/02/24                                       | <b>Exp.</b>         | : Jan. 2030 |

| S.R | Test                            | Specification                                                                    | Observation                                            |
|-----|---------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| 1   | <b>Description</b>              | Clear colourless to faint yellow colour viscous liquid with an amine like odour. | Clear colourless viscous liquid with amine like odour. |
| 2   | <b>Assay (acidimetric)</b>      | 98% min                                                                          | 99.52%                                                 |
| 3   | <b>Wt. per ml at 20°C</b>       | 1.096 – 1.100 g                                                                  | 1.096g                                                 |
| 4   | <b>Freezing point</b>           | 26 – 27°C                                                                        | 26.0 °C                                                |
| 5   | <b>Melting point of picrate</b> | 108 - 110°C                                                                      | 109.0 °C                                               |

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

**[Tested By]**



**CHEMIST  
(Ruchi)**



**[QC Incharge]**



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

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