



## **CERTIFICATE OF ANALYSIS**

|                         |          |                              |
|-------------------------|----------|------------------------------|
| <b>Product Name</b>     | <b>:</b> | <b>DIETHANOLAMINE 99% AR</b> |
| <b>Code No.</b>         | <b>:</b> | <b>00981</b>                 |
| <b>Batch No.</b>        | <b>:</b> | <b>PC12222235</b>            |
| <b>Mfg. Date</b>        | <b>:</b> | <b>DEC-2022</b>              |
| <b>Date Of Analysis</b> | <b>:</b> | <b>29/12/2022</b>            |
| <b>Retest Date</b>      | <b>:</b> | <b>NOV-2027</b>              |

| <b>TEST</b>                               | <b>SPECIFICATION</b>            | <b>RESULT</b>                   |
|-------------------------------------------|---------------------------------|---------------------------------|
| Appearance                                | Clear, colorless viscous liquid | Clear, colorless viscous liquid |
| Assay                                     | Min 99.0%                       | 99.74%                          |
| Apparent equivalent weight                | 104 - 106                       | 105                             |
| Freezing point                            | 27 - 28 °C                      | 27 °C                           |
| APHA colour                               | Max 15                          | 12                              |
| Residue on ignition (as SO <sub>4</sub> ) | Max 0.002%                      | 0.001%                          |
| Ethanolamine (GC)                         | Max 0.3%                        | Less than 0.3%                  |
| Triethanolamine (GC)                      | Max 0.3%                        | Less than 0.3%                  |
| Chloride (Cl)                             | Max 0.001%                      | Less than 0.001%                |
| Water (H <sub>2</sub> O)                  | Max 0.15%                       | 0.10%                           |
| Heavy metal (as Pb)                       | Max 0.0001%                     | Less than 0.0001%               |
| Iron (Fe)                                 | Max 0.0001%                     | Less than 0.0001%               |

REMARK : This product complies as per the specifications of **Pallav Chemicals & Solvents Pvt. Ltd.**

**This is an electronically generated Certificate and is valid without a signature.**

For Issues relating to Quality you may send us a mail on [sales@pallavchemicals.com](mailto:sales@pallavchemicals.com) or call on **022 4928 4000**

Website: [www.pallavchemicals.com](http://www.pallavchemicals.com)