

## Properties and Standard Specifications

### Diethylenetriamine

#### Physical Properties

|                            |              |            |  |                              |
|----------------------------|--------------|------------|--|------------------------------|
| Product Name               |              |            |  | Diethylenetriamine - DETA    |
| Molecule formula           |              |            |  | $H_2N - (C_2H_4 - NH)_2 - H$ |
| Appearance                 |              |            |  | Clear solution               |
| Relative Density (20/20°C) |              |            |  | 0.952                        |
| Boiling Point              | at 101.3 kPa | [°C]       |  | 207                          |
|                            | at 1.33 kPa  | [°C]       |  | 86                           |
| Freezing Point             |              | [°C]       |  | -39                          |
| Vapour Pressure at 20 °C   |              | [Pa]       |  | 30                           |
| Total Nitrogen content     |              | [wt. %]    |  | 40.7                         |
| Viscosity at 20 °C         |              | [mPa.s]    |  | 7.7                          |
| Total Amine Value          |              | [mgKOH/gr] |  | approx. 1625                 |

#### Standard Specifications

| Item         | Unit     | Value           |           |         | Method of Analysis |
|--------------|----------|-----------------|-----------|---------|--------------------|
|              |          | Minimum         | Typical   | Maximum |                    |
| Appearance   | -        | Clear , free of | suspended | matter  | DEL 119            |
| Colour       | APHA     |                 | < 5       | 30      | DEL 116            |
| Water        | weight % |                 | < 0.15    | 0.5     | DEL 115            |
| DETA content | weight % | 98.5            | 99.0      |         | DEL 109            |