

## Properties and Standard Specifications

### Ethylenediamine

#### Physical Properties

|                            |            |                                                       |              |     |
|----------------------------|------------|-------------------------------------------------------|--------------|-----|
| Product Name               | :          | Ethylenediamine                                       | -            | EDA |
| Molecule formula           | :          | $\text{H}_2\text{N}-\text{C}_2\text{H}_4-\text{NH}_2$ |              |     |
| Appearance                 | :          | Clear solution                                        |              |     |
| Relative Density (20/20°C) | :          | 0.898                                                 |              |     |
| Boiling Point at 101.3 kPa | [°C]       | :                                                     | 117          |     |
| at 1.33 kPa                | [°C]       | :                                                     | 19           |     |
| Freezing Point             | [°C]       | :                                                     | 10.8         |     |
| Vapour Pressure at 20 °C   | [Pa]       | :                                                     | 1330         |     |
| Total Nitrogen content     | [wt. %]    | :                                                     | 46.6         |     |
| Viscosity at 20 °C         | [mPa.s]    | :                                                     | 2.0          |     |
| Total Amine Value          | [mgKOH/gr] | :                                                     | approx. 1870 |     |

#### Standard Specifications

| Item        | Unit     | Value           |           |         | Method of Analysis |
|-------------|----------|-----------------|-----------|---------|--------------------|
|             |          | Minimum         | Typical   | Maximum |                    |
| Appearance  | -        | Clear , free of | suspended | matter  | DEL 119            |
| Colour      | APHA     |                 | < 5       | 15      | DEL 116            |
| Water       | weight % |                 | < 0.15    | 0.5     | DEL 115            |
| EDA content | weight % | 99.0            | >99.5     |         | DEL 107            |