

Properties and Standard Specifications

Piperazine 100%, flakes

Physical Properties

| | | |
|-----------------------------|--------------|--|
| Product Name | : | Piperazine - Pip (100%, flakes) |
| Molecule formula | : | $\begin{array}{ccc} & \text{C}_2\text{H}_4 & \\ & \diagdown \quad \diagup & \\ \text{HN} & & \text{NH} \\ & \diagup \quad \diagdown & \\ & \text{C}_2\text{H}_4 & \end{array}$ |
| Appearance | : | White flakes |
| Relative Density (124/4 °C) | : | 0.876 |
| Boiling Point at 101.3 kPa | [°C] : | 148 |
| at 1.33 kPa | [°C] : | -- |
| Freezing Point | [°C] : | 110 |
| Vapour Pressure at 20 °C | [Pa] : | 280 |
| Total Nitrogen content | [wt. %] : | 32.5 |
| Total Amine Value | [mgKOH/gr] : | approx. 1300 |

Standard Specifications

| Item | Unit | Value | | | Method of Analysis |
|------------|----------|--------------|---------|---------|--------------------|
| | | Minimum | Typical | Maximum | |
| Appearance | - | white flakes | | | DEL 119 |
| Colour | APHA | | < 10 | 50 | DEL 116 |
| Water | weight % | | < 0.30 | 0.5 | DEL 115 |
| PIP (GC) | weight % | 99.7 | | | DEL 108 |