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Typical Product Specifications & Properties

1H-Imidazole

CAS Number: : 288-32-4

| Specifications | Limits |
|------------------------------|--|
| Molecular weight | 68.08 |
| EINECS | 206-019-2 |
| SMILES | <chem>c1cnc[nH]1</chem> |
| InChI | 1S/C3H4N2/c1-2-5-3-4-1/h1-3H,(H,4,5) |
| InChIKey | RAXXELZNTBOGNW-UHFFFAOYSA-N |
| pKa Dissociation Constant | 6.953 |
| Melting Point | 90.5 °C |
| Henry's Law Constant | 3.76E-06 atm-m ³ /mole |
| Vapor Pressure | 0.046 mm Hg |
| Water solubility | 1.59E+05 mg/L |
| Atmospheric OH Rate Constant | 3.59E-11 cm ³ /molecule-sec |
| Boiling Point | 257 °C |



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| Specifications | Limits |
|-----------------------|--|
| log P (octanol-water) | -0.08 |
| Stability | Stable. Incompatible with acids, strong oxidizing agents. Protect from moisture. |
| Water solubility | 633 g/L (20 °C) |
| Merck | 14,4912 |
| BRN Number | 103853 |
| Sensitive | Hygroscopic |
| Vapor Pressure | <1 mm Hg (20 °C) |
| Flash Point | 293 °F |
| Density | 1.01 g/mL at 20 °C |
| Color | white |
| Refractive Index | 1.4801 |
| Boiling Point | 256 °C |



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| Specifications | Limits |
|---------------------|---|
| Storage Temperature | 2-8°C |
| Melting Point | 88-91 °C |
| Solubility | H2O: 0.1 M at 20 °C, clear, colorless |
| Form | crystalline |



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