

Technical Data Sheet

Diethylamine

Chemical Synonym

Diethamine; Ethanamine, N-ethyl; Ethylethanamine; DEA

Applications

- Herbicides int
- Home & industrial care intermediates
- Intermediates
- Lubricants
- Methyl methyl acrylate (mma)
- Paints & coatings
- Pharmaceutical chemicals
- Resins
- Rubber modification

Product Description

Diethylamine (DEA) is available as an anhydrous colorless liquid. DEA has an ammonia-like odor.

Diethylamine has a variety of applications:

- Manufacturing of DEET (an active ingredient in most insect repellent products)
- Alkylalkanolamine
- Rubber accelerator
- Pharmaceuticals
- Agricultural market
- Resin market
- Coating and dye markets. It is also used as a corrosion inhibitor

Typical Properties

Property	Typical Value, Units
General	
Molecular Formula	C ₄ H ₁₁ N
Molecular Weight	73.14 g/mol
Appearance	Clear liquid
Autoignition Temperature	312 °C
Boiling Point	55.5 °C
Critical Pressure	37 090 hPa
Critical Temperature	222.89 °C
Density	
@ 20°C	0.71 g/cm ³
Dissociation constant, pKa	
@ 20°C	11.09
Flash Point	-26 °C

Closed Cup	
Freezing Point (1013 hPa)	-50 °C
Heat of Vaporization ^b (1013 hPa)	401.48 kJ/kg
Octanol-water partition coefficient, log Pow	0.58
pH 100 g/l @ 20°C	13
Refractive Index @ 25°C	1.383-1.384
Vapor Density (air = 1)	2.5
Vapor Pressure @ 20°C	252.1 hPa
@ 25°C	316 hPa
@ 40°C	572.3 hPa
Viscosity @ 25°C	0.319 mPa·s
Water solubility	Completely miscible

^bLatent

Packaging

- Bulk
- Steel drums (140 kg net)

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