

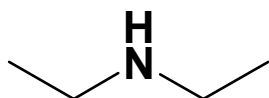
Diethylamine anhydrous (DEA)

Technical Data Sheet

April 2010



Formula..... $C_4H_{11}N$
Molecular Weight 73.1
PRD Number 30036817
CAS Registry Number 109-89-7



Product Specifications	Value	Test Method
Assay, % minimum	99.5	GC
Ethylamine, % maximum	0.20	GC
Triethylamine, % maximum	0.01	GC
Water, % maximum	0.10	DIN 51 777

Physical Properties

Melting temperature, °C.....	-50
Boiling temperature °C.....	56
Density @ 20°C, g/cm ³	0.71
Flash point, °C.....	-23
Ignition temperature °C.....	290

Description

Diethylamine anhydrous (DEA) is a colorless to yellow liquid with an amine-like odor.

Synonyms

DEA
N,N-Diethylamine

Safety

DEA is highly flammable. It is harmful by inhalation, contact with skin and if swallowed. Can cause severe burns.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

Applications

Intermediate used in the production of:

- Catalyst
- Corrosion Inhibitor
- Cosmetics
- Crop protection agents
- Dyes
- Hardeners for epoxy resins
- Initial product in chemical syntheses
- Pharmaceuticals
- Photographic chemicals
- Plasticizer
- Rubber industry

Packaging

Available in bulk and drums.

Storage & Handling

DEA has a shelf life of 24 months in unopened, original container. Protect from fire, static discharges, acids and acid-forming substances.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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