

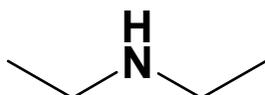
# Diethylamine anhydrous (DEA)

## Technical Data Sheet

April 2010

 **BASF**  
The Chemical Company

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 <sup>3</sup> .....	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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