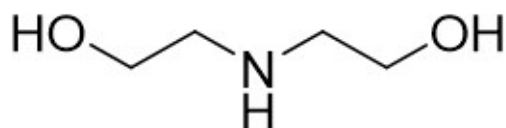


# Diethanolamine (DEA)

2,2'-Iminodiethanol



Diethanolamine contains a secondary amine and two alcohol groups. It is a viscous liquid with a freezing point of 28 °C. It is mainly used for gas sweetening and in the manufacture of light-duty detergents and shampoos and can be cyclized to morpholine.

CAS number  
111-42-2

EINECS/ELINCS No.  
203-868-0

Molecular weight  
105.1

## Specifications

|                            |                             |
|----------------------------|-----------------------------|
| Appearance (MOA 200)       | Clear liquid or white solid |
| Assay (MOA 564)            | ≥ 99.0 wt%                  |
| Monoethanolamine (MOA 568) | ≤ 0.5 wt%                   |
| Triethanolamine (MOA 568)  | ≤ 0.30 wt%                  |
| Color (MOA 201)            | ≤ 20 Hazen                  |
| Water (MOA 305)            | ≤ 0.2 wt%                   |

## Characteristics

|   |                        |
|---|------------------------|
| Form  | Viscous liquid         |
| Color   | Colorless              |
| Odor  | Ammonical              |
| Water solubility                                      | Completely             |
| Solubility in other solvents                          | Acetone; Ethanol       |
| pH, 10% solution                                      | 11.5                   |
| Melting point/freezing point, 1013 hPa                | 27 °C                  |
| Boiling point/boiling range, 1013 hPa                 | 270 °C                 |
| Flash point, 1013 hPa                                 | 100-199 °C             |
| Ignition temperature                                  | > 150 °C               |
| Vapor pressure, 20°C                                  | 0.00009 hPa            |
| Density, 20°C   | 1100 kg/m <sup>3</sup> |
| Relative density, 20°C                                | 1.1                    |
| Partition coefficient, N-octanol/water, 20°C, log Pow | -2.46                  |
| Dynamic viscosity, 30°C                               | 380 mPa.s              |

### Notes:

Methods of Analysis (MOA) are available upon request. In case of dispute, the listed Method of Analysis will be used as reference methods.

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## Contact Us

GLOBAL  
[infoethy@nouryon.com](mailto:infoethy@nouryon.com)

The Nouryon logo features a stylized orange 'N' followed by the word 'ouryon' in a lowercase, orange, sans-serif font.