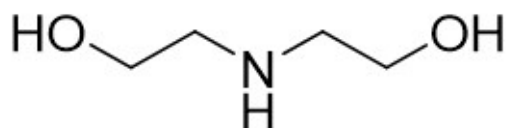


# Diethanolamine (DEA)

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

Molecular formula  
C<sub>4</sub>H<sub>11</sub>NO<sub>2</sub>

## Specifications

Appearance (MOA 200)	Clear liquid or white solid
Assay (MOA 549)	≥ 99.0 wt%
Monoethanolamine (MOA 549)	≤ 0.5
Color (MOA 201)	≤ 20 Hazen
Water (MOA 305)	≤ 0.2 wt%
Triethanolamine (MOA 549)	≤ 0.30

## 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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The Nouryon logo consists of a stylized orange 'N' followed by the word 'ouryon' in a lowercase, sans-serif font. The 'N' is significantly larger and more prominent than the rest of the text.