

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

Molecular weight 105.1

EINECS/ELINCS No. 203-868-0

Molecular formula $C_4H_{11}NO_2$

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/m³
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:

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