



## Diethanolamine - DEA



Molecular Weight	105.1
CAS Reg. No.	111-42-2
EINECS No.	203-868-0

### Synonyms

Ethanol, 2,2'-iminobis-  
Bis-(2-hydroxyethyl)amine  
Hydroxyethyl ethanolamine aminodiethanol

### Specification

Appearance	clear, viscous liquid or white crystalline solid
Assay	min. 99.0% (GLC)
Water	max. 0.2% (KF titr.)
Color	max. 20 Hazen (Comparator) (at time of filling, may discolor in contact with air.

*Test methods are available upon request.*

### Typical Properties

Melting Point	Approx. 28°C *)
Boiling Point	>270°C
Density	1090 kg/m <sup>3</sup> at 30°C 1070 kg/m <sup>3</sup> at 60°C
Viscosity	380 mPa·s at 30°C 60 mPa·s at 60°C
Flash Point	>170°C
Vapor Pressure	<1 Pa at 30°C
Refract. Index, n <sub>D</sub> <sup>20</sup>	1.475
Odor	mildly ammoniacal

\*) *The product may supercool and stay liquid below its melting point*

### Solubility

water	miscible, hygroscopic
ethanol	miscible
acetone	miscible
ether	immiscible
benzene	immiscible
hexane	immiscible

Corrodes copper and its alloys. Reacts violently with acids and chlorinated hydrocarbons. Absorbs carbon dioxide from air. May discolor in contact with air.

### Applications

Gas "sweetening", detergents, cement grinding. Intermediate in the manufacture of corrosion inhibitors, cutting oils, emulsifiers, lubricating oils, rubber chemicals, surfactants and textile chemicals.

### Packaging

Delivered in stainless steel road tankers, bulk containers, or in mild steel drums containing 210 kg net.

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