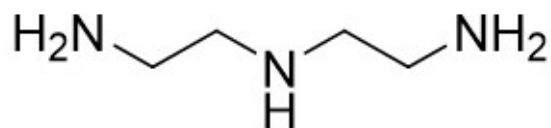


# Diethylenetriamine (DETA)

N'-(2-aminoethyl)ethane-1,2-diamine



Diethylenetriamine (DETA) is an aliphatic ethylene amine with two primary and one secondary amine groups. DETA is a clear, colorless liquid. Typical application areas of DETA include chelating agents, wet-strength resins, lubricant oil additives, oil field chemicals and polyamides for resins or epoxy curing agents.

CAS number  
111-40-0

EINECS/ELINCS No.  
203-865-4

Molecular weight  
103.2

Molecular formula  
C<sub>4</sub>H<sub>13</sub>N<sub>3</sub>

## Specifications

Appearance (MOA 200)	Clear liquid
Assay (MOA 552)	≥ 98.5 wt%
Color (MOA 201)	≤ 30 Hazen
Water (MOA 305)	≤ 0.5 wt%

## Characteristics

Form	Viscous liquid
Color	Colorless
Odor	Ammonical
Water solubility	Soluble
Solubility in other solvents	Alcohols; Hydrocarbons
pH, 20 °C	12
Melting point/freezing point, 1013 hPa	-39 °C
Boiling point/boiling range, 1013 hPa	207 °C
Flash point, 1013 hPa, closed cup	96.7 °C
Vapor pressure, 20 °C	0.2 hPa
Relative vapor density, air = 1.0	3.6
Density, 20 °C	957 kg/m <sup>3</sup>
Relative density, 20 °C	0.959
Partition coefficient, N-octanol/water, 20 °C, log Pow	-1.58
Dynamic viscosity, 20 °C	5.05 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 features a stylized orange 'N' followed by the word 'ouryon' in a lowercase, orange, sans-serif font.