



Diethylenetriamine - DETA



Molecular Weight	103.2
CAS Reg. No.	111-40-0
EINECS No.	203-865-4

Synonyms

1,2-Ethanediamine, N-(2-aminoethyl)-
Bis-(2-aminoethyl)-amine
3-Azapentane-1,5-diamine

Specification

Appearance	clear, colorless liquid
Assay	min. 98.5% (GLC; KF titr.)
Water	max. 0.5% (KF titr.)
Color	max. 30 Hazen (Comparator)

Test methods are available upon request.

Typical Properties

Melting Point	-39°C
Boiling Point	207°C
Density	950 kg/m ³ at 20°C 920 kg/m ³ at 50°C
Viscosity	7 mPa·s at 20°C 3 mPa·s at 50°C
Flash Point	104°C (Open Cup)
Vapor Pressure	20 Pa at 20°C
Refract. Index, n _D ²⁰	1.483
Chlorides	not present
Odor	strongly ammoniacal

Solubility

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

Corrodes copper and its alloys. Reacts violently with aldehydes, acids and chlorinated hydrocarbons. Absorbs carbon dioxide from air.

Applications

Intermediate in the manufacture of sequestering agents, epoxy-curing agents, wet strength resins, dye fixing agents, polyamide resins, fabric softeners, oil drilling chemicals, etc.

Packaging

Delivered in stainless steel road tankers and bulk containers or polyethylene lined drums containing 185 kg net. IBC containing 940 kg net is also available.

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