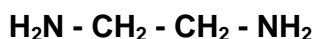




Ethylenediamine - EDA



Molecular Weight	60.1
CAS Reg. No.	107-15-3
EINECS No.	203-468-6

Synonyms

1,2-Ethanediamine
1,2-Diaminoethane
Dimethylenediamine

Specification

Appearance	clear, colorless, fuming liquid
Assay	min. 99.0% (GLC and KF titr.)
Water	max. 0.5% (KF titr.)
Color	max. 15 Hazen (Comparator)

Test methods are available upon request.

Typical Properties

Melting Point	11°C
Boiling Point	117°C
Density	900 kg/m ³ at 20°C 880 kg/m ³ at 40°C
Viscosity	1.7 mPa·s at 20°C 1.1 mPa·s at 40°C
Flash Point	43°C (Tag Closed Cup)
Vapor Pressure	1.3 kPa at 20°C
Refract. Index, n _D ²⁰	1.458
Odor	strongly ammoniacal

Solubility

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

Flammable. Corrodes copper and its alloys. Reacts violently with aldehydes, acids and chlorinated hydrocarbons. Reacts with water under evolution of heat (formation of hydrate). Absorbs carbon dioxide from air.

Applications

Intermediate in the manufacture of sequestering agents, fungicides, textile resins, polyols, perborate activators, polyamide resins, textile fibers, rubber chemicals, pharmaceuticals, etc.

Packaging

Delivered in stainless steel road tankers and bulk containers. Mild steel drums containing 180 kg net, or polyethylene lined drums containing 175 kg net are also available.

2009-01