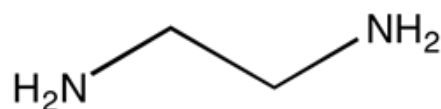


Identification

$C_2H_8N_2$
 M = 60,10 g/mol
 CAS [107-15-3]
 EC number: 203-468-6
 Taric code: 2921 21 00


Synonyms

1,2-Ethanediamine, 1,2-Diaminoethane

Applications

solvents, emulsifier, in antifreeze compositions, in lubricant compositions, in pharma industry.

Specifications

assay (acidimetric).....	98,0 - 100,5 %	density (20°/20°).....	0,895 - 0,905
Identification EP.....	passes test	carbonates	passes test
Identification USP.....	passes test	chlorides (Cl).....	max. 100 ppm
appearance of solution.....	passes test	ammonium and other bases.....	passes test
boiling point.....	116 - 118°C	iron (Fe).....	max. 10 ppm
		residue on evaporation.....	max. 0,3 %

Physical data

- Density: 0,90 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 11 °C
- Boiling point: 116 - 118 °C
- Flash point: 36 °C
- Ignition temperature: ~ 400 °C
- Vapour pressure: (20 °C) 12 hPa
- Refraction index: (n 20 °C/D) 1,4540
- Viscosity: (25 °C) 1,54 mPas
- Dielectric const.: (18 °C) 16
- Evap. heat: (116 °C) 700 KJ/kg
- Saturation conc.: (20 °C) 29 g/m³
- Expl. limit (upper): 16,3 Vol%
- Expl. limit (lower): 2,5 Vol%
- pH(250 g/l H₂O, 25 °C) ~ 12
- Hygroscopic

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H314: Causes severe skin burns and eye damage.
 H226: Flammable liquid and vapour.
 H302: Harmful if swallowed.
 H312: Harmful in contact with skin.
 H317: May cause an allergic skin reaction.


Precautionary Statements:

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER or doctor / physician.
 P320: Specific treatment is urgent (see on this label).
 P370+P378: In case of fire: Use ... for extinction.
 P405: Store locked up.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 8 CF1 II • UN 1604 • ETHYLENEDIAMINE
- IMDG: 8 II • UN 1604 • ETHYLENEDIAMINE
- IATA/ICAO: 8 II • UN 1604 • ETHYLENEDIAMINE
- PAX: 808
- CAO: 812
- 10°C - 30°C