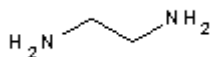


**PRODUCT CODE: 161869****Ethylenediamine, 99% for synthesis**

M.= 60,10

CAS [107-15-3]

EINECS 203-468-6

TARIC 2921 21 00 00

SYNONYMS: 1,2-Diaminoethane, 1,2-Ethanediamine

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water • D 20/4 0,898 • M.P.: 8,5 °C • B.P.: 116,5 °C • pH(250 g/l)12 • n₂₀/D : 1,454 • Flash P.:34 °C • Ign. T.:385 °C • Vap. press. (20 °C) 12 hPa • Viscosity 25 °C 1,54 mPa.s • Dielec. constant18 °C 16 • Heat evap. 116,5 °C 700 KJ/Kg • Satur. conc. 20 °C 29 g/m³ • Expl. limit2,7 %(V)16,6 %(V) •

BIBLIOGRAPHY: Merck Index **12**, 3.841 13, 3.829 Sax **EEA500** • Kühn-Birett **A 29** • Ullmann **(5.)2**, 23 • Beilstein **4**, **230 I**, **398 II**, **676 III**, **478 IV**, **1166** • BRN 605263 • Fieser **1372 4231 10297 12338 13157** • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) •

HAZARDOUS: C.E: 612-006-00-6 • RTECS: KH 8575000 • LD50 oral rat 500 mg/kg • TC L0 man 200ppm • LC L0 mus 300g/m³ / 1h • LC L0 inh rat 4000 ppm / 8h • LD50 skn rbt 730 mg/kg • LD50 ipr mus 200 mg/kg TLV-TWA 10 ppm25 mg/m³ VLA-ED 10 ppm25 mg/m³



H: H226 • H312 • H302 • H314 • H334 • H317 •

P: P210 • P233 • P240 • P241 • P242 • P243 • P260 • P261 • P264 • P270 • P272 • P280 • P285 • P301+P312 • P301+P330+P331 • P302+P352 • P303+P361+P353 • P304+P340 • P304+P341 • P305+P351+P338 • P310 • P312 • P321 • P322 • P330 • P333+P313 • P338 • P342+P311 • P363 • P370+P378 • P403+P235 • P405 • P501 •

TRANSPORT REGULATIONS: UN: 1604 • ADR: 8(3)/II • IMDG: 8(3)/II • IATA: 8(3)/II • PAX: 851 • CAO: 855 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l~0,899 kg 1kg~1,112 l

SPECIFICATIONS:

Minimum assay (G.C.)	99%
Identity :	
Identity	IR passes test
Density at 20/4	0,897-0,900
Water (H2O)	1 %

Ed.: 3 . Vig.: 15.01.2011 .

Prod.: 161869