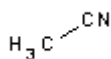


**PRODUCT CODE: 161881****Acetonitrile, 99.7% for synthesis** $C_2H_3N$  $CH_3CN$ 

M.= 41,05

CAS [75-05-8]

EINECS 200-835-2

TARIC 2926 90 70 90

**SYNONYMS:** Cyanomethane, Ethanenitrile, Methyl Cyanide

**PHYSICAL DATA:** liquid, Clear, Colourless, Miscible with water • Hygroscopic • D 20/4 0,786 • M.P.: -48 °C • B.P.: 80 - 82 °C • n<sub>20</sub>/D : 1,344 • Flash P.:12,8 °C(closed cup) • Ign. T.:524 °C • Vap. press. (20 °C) 98,64 hPa (25 °C) 121,44 hPa • Viscosity 20 °C 0,35 mPa.s • D. M. 20 °C 3,44 Debye • Dielec. constant 20 °C 38,8 • Heat evap. 82 °C 833 KJ/Kg • Satur. conc. 20 °C 163 g/m<sup>3</sup> • Expl. limit 3 % (V) 16 % (V) •

**BIBLIOGRAPHY:** Merck Index **13**, 71 Sax **ABE500** • Safety **2**, **22 A** • Kühn-Birett **A 5** • Beilstein **2**, **183 I**, **184 II**, **181 III**, **408 IV**, **419** • BRN 741857 • Fieser **213** • ACS **XI** •

**HAZARDOUS:** C.E: 608-001-00-3 • RTECS: AL 7700000 • LD50 oral mus 617 mg/kg / (OECD 401) • LC50 mus 6,022 mg/l / 4h, (OECD 403) • LD50 skn rbt >2.000 mg/kg / (OECD 402) • ECLTV 40 ppm 70 mg/m<sup>3</sup> VLA-ED 40 ppm 68 mg/m<sup>3</sup> Factor for short-term value (Germany) 2

**Derived No Effect Level (DNEL)**

Workers Inhalation, acute (systemic) 68 mg/m<sup>3</sup> Workers Inhalation, acute (local) 68 mg/m<sup>3</sup> Workers Dermal, long exposure (systemic) 32.2mg/kg Workers Inhalation, long term (systemic) 68 mg/m<sup>3</sup> Workers Inhalation, long term (local) 68 mg/m<sup>3</sup> Population Inhalation, acute (systemic) 220 mg/m<sup>3</sup> Population, oral, acute (systemic) 0.6mg/kg Population Inhalation, acute (local) 22 mg/m<sup>3</sup> Population Inhalation, long term (systemic) 4,8 mg/m<sup>3</sup> Population Inhalation, long term (local) 4,8 mg/m<sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

Freshwater 10mg/l Marine water 1mg/l Periodic release 10mg/l Freshwater Sediment 7.53mg/kg Soil 2.41mg/kg Sewage treatment plant 32mg/l



H: H225 • H332 • H312 • H302 • H319 •

P: P210 • P233 • P240 • P241 • P242 • P243 • P261 • P270 • P271 • P280 • P301+P330+P331 •

P303+P361+P353 • P304+P340 • P305+P351+P338 • P337+P313 • P312 • P322 • P363 • P370+P378 • P501 •

**TRANSPORT REGULATIONS:** UN: 1648 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

**WEIGHT/VOLUME INFORMATION:** 1l~0,781 kg      1kg~1,28 l

## **SPECIFICATIONS:**

Minimum assay (G.C.)	99,7%
Identity :	
Identity	IR passes test
Density at 20/4	0,779-0,783
Non-volatile matter	0,003 %
Water (H2O)	0,05 %

Ed.: 4 . Vig.: 15.01.2011 .

Prod.: 161881