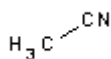


**PRODUCT CODE: 481881****Acetonitrile dry (max. 0.005% water) , ACS**C₂H₃NCH₃CN

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 • n₂₀/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/m³ • 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/m³ VLA-ED 40 ppm 68 mg/m³ Factor for short-term value (Germany) 2

Derived No Effect Level (DNEL)

Workers Inhalation, acute (systemic) 68 mg/m³ Workers Inhalation, acute (local) 68 mg/m³ Workers Dermal, long exposure (systemic) 32.2mg/kg Workers Inhalation, long term (systemic) 68 mg/m³ Workers Inhalation, long term (local) 68 mg/m³ Population Inhalation, acute (systemic) 220 mg/m³ Population, oral, acute (systemic) 0.6mg/kg Population Inhalation, acute (local) 22 mg/m³ Population Inhalation, long term (systemic) 4,8 mg/m³ Population Inhalation, long term (local) 4,8 mg/m³

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 |

Maximum limit of impurities

| | |
|-----------------------------|--------------|
| APHA colour | 10 |
| Acidity | 0,0002 meq/g |
| Alkalinity | 0,0001 meq/g |
| Insoluble matter in H2O | passes test |
| Non-volatile matter | 0,001 % |
| Reducing substance to KMnO4 | passes test |
| Hydrogen Cyanide (HCN) | 0,005% |
| Acrylonitrile (G.C.) | 0,05% |
| Allyl Alcohol (G.C.) | 0,05% |
| Benzene (G.C.) | 0,05% |
| Propionitrile (G.C.) | 0,1% |
| Water (H2O) | 0,005 % |

Metals by ICP [in mg/Kg (ppm)]

| | |
|----|------|
| Ag | 0,05 |
| Al | 0,5 |
| As | 0,05 |
| Au | 0,05 |
| B | 0,02 |
| Ba | 0,1 |
| Be | 0,02 |
| Bi | 0,05 |
| Ca | 0,05 |
| Cd | 0,05 |
| Co | 0,02 |
| Cr | 0,02 |
| Cu | 0,02 |
| Fe | 0,1 |
| Ga | 0,02 |
| Ge | 0,05 |
| Hg | 0,05 |
| In | 0,05 |
| K | 0,1 |
| Li | 0,05 |
| Mg | 0,1 |
| Mn | 0,02 |
| Mo | 0,02 |
| Na | 0,5 |
| Ni | 0,02 |

| | |
|----|------|
| P | 0,2 |
| Pb | 0,1 |
| Pt | 0,02 |
| S | 0,2 |
| Sb | 0,02 |
| Si | 0,2 |
| Sn | 0,1 |
| Sr | 0,2 |
| Ti | 0,02 |
| Tl | 0,02 |
| V | 0,02 |
| Zn | 0,1 |
| Zr | 0,02 |

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Prod.: 481881