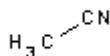


**PRODUCT CODE: 131881****Acetonitrile (Reag. Ph. Eur.) for analysis, ACS**

C_2H_3N
CH₃CN



M.= 41,05 CAS [75-05-8]
TARIC 2926 90 70 90

EINECS 200-835-2

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) • ECTLV 40 ppm70 mg/m3 VLA-ED 40 ppm68 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	0,0005 meq/g
Alkalinity	0,0001 meq/g
Insoluble matter in H ₂ O	passes test
Non-volatile matter	0,001 %
Reducing substance to KMnO ₄	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 (H ₂ O)	0,1 %

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

Ed.: 5 . Vig.: 04.09.2013 .

Prod.: 131881