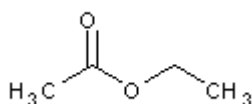
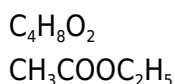




PRODUCT CODE: 131318

Ethyl Acetate (Reag. Ph. Eur.) for analysis, ACS, ISO



M.= 88,10

CAS [141-78-6]

EINECS 205-500-4

TARIC 2915 31 00 00

FEMA 2414

SYNONYMS: Acetic Acid Ethyl Ester, Acetic Ether

PHYSICAL DATA: liquid, Clear, Colourless, Soluble in water 80 g/l at 20 °C D 20/4 0,902 • M.P.: -83 °C • B.P.: 77 °C • n_{20/D} : 1,3719 • Flash P.: -4 °C • Ign. T.: 430 °C • Vap. press. (20 °C) 97 hPa • Viscosity 20 °C 0,44 mPa.s • D. M. 20 °C 1,78 Debye • Dielec. constant 25 °C 6 • Evap. number (DIN 53170) 2,8 • Heat evap. 77 °C 427 KJ/Kg • Satur. conc. 20 °C 336 g/m³ • Expl. limit 2,1 % (V) 11,5 % (V) •

BIBLIOGRAPHY: Merck Index **12**, 3.803 13, 3.792 Sax **EFR000** • Safety **2**, **1563 D** • Kühn-Birett **E 7** • Ullmann (**5**).1, 39 • Beilstein **2**, **125 I**, **54 II**, **129 III**, **211 IV**, **127** • BRN 506104 • ACS **XI** • ISO 6353/3-1987 R - 62, 28 • BP. **2018** • USP - **NF 36** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** • Directive 88/344/E.C.E.92/115/E.C.E.94/52/EC97/60/EC (27/10/1997) 2009/32/CE • DAB 10 - 3 (1994), Royal Decree 472/1990 (6/4/1990), 2667/1998 (11/12/1998), 1101/2011 (22/7/2011) •

HAZARDOUS: C.E: 607-022-00-5 • RTECS: AH 5425000 • LD50 oral rbt 4.934 mg/kg / (OECD 401) • LC50 rat >22,5 mg/l / 8h • LD50 skn rbt >20.000 mg/kg • VLA-ED 400 ppm 1.460 mg/m³ Factor for short-term value (Germany) 2

Derived No Effect Level (DNEL)

Workers Inhalation, acute (systemic) 1.468 mg/m³ Workers Inhalation, acute (local) 1.468 mg/m³ Workers Dermal, long exposure (systemic) 63mg/kg bw/24h Workers Inhalation, long term (systemic) 34 mg/m³ Workers Inhalation, long term (local) 734 mg/m³ Population Inhalation, acute (systemic) 734 mg/m³ Population Inhalation, acute (local) 734 mg/m³ Population, Dermal, long exposure (systemic) 37mg/kg bw/24h Population Inhalation, long term (systemic) 367 mg/m³ Population, oral, long term (systemic) 4.5mg/kg bw/24h Population Inhalation, long term (local) 367 mg/m³

Predicted No Effect Concentration (PNEC)

Freshwater 0.26mg/l Marine water 0.026mg/l Freshwater Sediment 1.25mg/kg Marine water Sediment 0.125mg/kg Soil 0.24mg/kg STP 650mg/l



H: H225 • H319 • EUH066 • H336 •

P: P210 • P233 • P240 • P241 • P242 • P501 • P243 • P261 • P264 • P271 • P280 • P303+P361+P353 • P304+P340 • P305+P351+P338 • P312 • P337+P313 • P370+P378 • P403+P233 • P403+P235 • P405 •

TRANSPORT REGULATIONS: UN: 1173 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

WEIGHT/VOLUME INFORMATION: 1l~0,903 kg 1kg~1,107 l

OBSERVATIONS: Storage away from direct light. •

SPECIFICATIONS:

Minimum assay (G.C.)	99,8%
Identity :	
Identity	IR passes test
Density at 20/20	0,901-0,902
Range of Boiling	76-78°C

Maximum limit of impurities

APHA colour	10
Acidity	0,0005 meq/g

Non-volatile matter	0,001 %
Darkened substances by H2SO4	passes test
Acetaldehyde (G.C.)	0,005%
Acetone (G.C.)	0,005%
Methanol (G.C.)	0,02%
Ethanol (G.C.)	0,1%
Isopropyl Acetate (G.C.)	0,1%
Methyl Acetate (G.C.)	0,02%
Aldehydes	passes test
Water (H2O)	0,1 %

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

Ag	0,05
Al	0,5
As	0,5
Au	0,1
B	0,02
Ba	0,1
Be	0,02
Bi	0,05
Ca	0,5
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	0,1
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