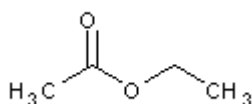
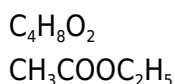


**PRODUCT CODE: 361318****Ethyl Acetate for UV, IR, HPLC, ACS**

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<sub>20/D</sub> : 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/m<sup>3</sup> • 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/m<sup>3</sup> Factor for short-term value (Germany) 2

**Derived No Effect Level (DNEL)**

Workers Inhalation, acute (systemic) 1.468 mg/m<sup>3</sup> Workers Inhalation, acute (local) 1.468 mg/m<sup>3</sup> Workers Dermal, long exposure (systemic) 63mg/kg bw/24h Workers Inhalation, long term (systemic) 34 mg/m<sup>3</sup> Workers Inhalation, long term (local) 734 mg/m<sup>3</sup> Population Inhalation, acute (systemic) 734 mg/m<sup>3</sup> Population Inhalation, acute (local) 734 mg/m<sup>3</sup> Population, Dermal, long exposure (systemic) 37mg/kg bw/24h Population Inhalation, long term (systemic) 367 mg/m<sup>3</sup> Population, oral, long term (systemic) 4.5mg/kg bw/24h Population Inhalation, long term (local) 367 mg/m<sup>3</sup>

**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.)	99,9%
Density at 20/4	0,900-0,902
<b>Maximum limit of impurities</b>	
APHA colour	10
Acidity	0,0002 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,0003 %
Darkened substances by H2SO4	passes test
Water (H2O)	0,01 %
Suitability for IR spectrometry:	passes test
Fluorescence at 254 nm (as quinine)	2 ppb
Fluorescence at 365 nm (as quinine)	1 ppb
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 253 (Cut off) nm	<sup>3</sup> 10 %
Transmittance at 255 nm	<sup>3</sup> 20 %
Transmittance at 257 nm	<sup>3</sup> 32 %
Transmittance at 260 nm	<sup>3</sup> 50 %
Transmittance at 263 nm	<sup>3</sup> 80 %
Transmittance at 265 nm	<sup>3</sup> 90 %
Transmittance at 270-400 nm	<sup>3</sup> 98 %
Data of interest in HPLC:	
P' + 0,25 E	5,8
Rohrschneider Polarity	4,4
Eluotropic value E° (Al2O3)	0,58
Sol. H2O in solv. at 20°C	9,8

**For critical jobs, purge with nitrogen.**

**Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.**

Ed.: 5 . Vig.: 01.07.2014 .

Prod.: 361318