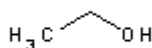
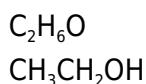


**PRODUCT CODE: 361086****Ethanol absolute for UV, IR, HPLC**

M.= 46,07

CAS [64-17-5]

EINECS 200-578-6

TARIC 2207 10 00 90

SYNONYMS: Ethyl Alcohol

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water and most of the solvents • D 20/4 0,79 • M.P.: -114,1 °C • B.P.: 78,5 °C • n₂₀/D : 1,361 • Flash P.:13 °C • Ign. T.:425 °C • Vap. press. (20 °C) 59 hPa • Viscosity 25 °C 1,2 mPa.s • D. M. 20 °C 1,7 Debye • Dielec. constant 25 °C 24,3 • Evap. number (DIN 53170) 8,3 • Heat evap. 78 °C 855 KJ/Kg • Satur. conc. 20 °C 105 g/m³ • Expl. limit 3,5 %(V) 15 %(V) •

BIBLIOGRAPHY: Merck Index **12**, 3.806 13, 3.795 Sax **EFU300** • Ullmann **(5.)** 9 , 587 • Beilstein **1 , IV , 1289** • BRN 1718733 • ACS **XI** • ISO 6353/2-1983 R -11 , 14 • BP.**2018** • USP **41** • 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 • Ph. U. IX , 74, Ph.Fr. X , 15, Royal Decree 472/1990 (6/4/1990) , 2667/1998 (11 /12/1998), 1101/2011 (22/7/2011), JP XV •

HAZARDOUS: C.E: 603-002-00-5 • RTECS: KQ 6300000 • LD L0 oral hmn 1.400 mg/kg • LD50 oral rat 7.060 mg/kg • LC L0 inh gpg 21900 ppm • LC50 inh rat 20000 ppm / 10h • VLA-ED 1.000 ppm 1.910 mg/m³



H: H225 • H319 •

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

TRANSPORT REGULATIONS: UN: 1170 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •**WEIGHT/VOLUME INFORMATION:** 1l~0,790 kg 1kg~1,266 l**OBSERVATIONS:** May be subject to special tax. • Storage away from direct light, away from sources of ignition and

heat. Storage at temperature below 25°C. •

SPECIFICATIONS:

Minimum assay (G.C.) (v/v)	99,9%
Density at 20/4	0,789-0,790
Maximum limit of impurities	
APHA colour	10
Acidity	0,0002 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,0003 %
Water (H ₂ O)	0,1 %
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 205 (Cut off) nm	³ 10 %
Transmittance at 210 nm	³ 35 %
Transmittance at 220 nm	³ 55 %
Transmittance at 235 nm	³ 80 %
Transmittance at 245 nm	³ 90 %
Transmittance at 270-400 nm	³ 98 %
Data of interest in HPLC:	
Rohrschneider Polarity	4,3
Elutropic value E° (Al ₂ O ₃)	0,88
Sol. H ₂ O in solv. at 20°C	miscible

For critical jobs, purge with nitrogen.

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