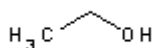


**PRODUCT CODE: 481086****Ethanol absolute dry (max. 0.02% water)**

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 • n<sub>20/D</sub>: 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/m<sup>3</sup> • 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/m<sup>3</sup>



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)	99,8%
Identity :	
Identity	IR passes test
Density at 20/4	0,789-0,790

### Maximum limit of impurities

APHA colour	10
Acidity	0,0005 meq/g

Alkalinity	0,0002 meq/g
Insoluble matter in H <sub>2</sub> O	passes test
Non-volatile matter	0,0005 %
Darkened substances by H <sub>2</sub> SO <sub>4</sub>	passes test
Carbonyl compounds (as CH <sub>3</sub> CHO)	0,005%
Acetone (G.C.)	0,001%
Butanone (G.C.)	0,003%
2-Butanol (G.C.)	0,02%
Methanol (G.C.)	0,02%
Water (H <sub>2</sub> O)	0,02 %

Ca	0,000 05%
Cd	0,000 005%
Co	0,000 002%
Cr	0,000 002%
Cu	0,000 01%
Fe	0,000 01%
Mg	0,000 01%
Mn	0,000 002%
Ni	0,000 002%
Pb	0,000 01%
Zn	0,000 01%