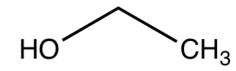


# Ethanol absolute, Multisolvent® HPLC grade ACS ISO UV-VIS

## Identification

 $C_2H_5OH$ M = 46,07 g/mol CAS [64-17-5]

EC number: 200-578-6 Taric code: 2207 10 00



#### **Synonyms**

Ethyl alcohol, Methylcarbinol, Spirit, Spirit of wine

ET0015

#### **Applications**

solvents, disinfectant, for pharmaceuticals synthesizing, synthesis of organic products, perfumery.

#### **Specifications**

assay (G.C.) (v/v)	min. 99,9 %
identity (IR-spectrum)	passes test
density (20°/4°)	0,789 - 0,791
appearance	clear
colour (Hazen)	
solubility in water	passes test
acidity	max. 0,0002 meq/g
alkalinity	max. 0,0002 meq/g
chlorides (CI)	max. 0,00003 %
nitrates (NO3)	max. 0,00003 %
phosphates (as PO4)	max. 0,00003 %
sulfates (SO <sub>4</sub> )	max. 0,00003 %
acetone (G.C.)	max. 0,001 %
benzene (G.C.)	max. 0,0002 %
isoamyl alcohol (G.C.)	max. 0,05 %
methanol (G.C.)	max. 0,01 %
methylethylketone (G.C.)	

liquid chromatography suitability absorbance..... passes test

min. transmission/max. absorbance in a	1,0 cm cell at	
wavelength:	T(%)	A (AU)
220 nm	55 %	0,260 AU
230 nm		
245 nm	90 %	0,046 AU
270 nm	98 %	0,009 AU

Microfiltered through membranes of pore diameter 0,22  $\mu m$ 

## Physical data

• Density: 0,79 g/cm3

• Solub. in water: (20 °C): miscible

Melting point: -114,5 °C
Boiling point: 78,3 °C
Flash point: 13 °C

• Ignition temperature: 425 °C

• Vapour pressure: (20 °C) 59 hPa

Viscosity: (20 °C) 1,2 mPas

• Dipolar moment: (20 °C) 1,7 Debye

• Dielectric const.: (25 °C) 24,3

• Evap. heat: (78 °C) 855 KJ/kg

• Saturation conc.: (20 °C) 105 g/m<sup>3</sup>

• Expl. limit (upper): 15 Vol%

• Expl. limit (lower): 3,5 Vol%

• pH(10 g/I H<sub>2</sub>O, 20 °C) 7,0

#### Safety - GHS

Signal Word: Danger

## **Hazard Statements:**

H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation.





#### **Precautionary Statements:**

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.

P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378: In case of fire: Use ... for extinction.

P403+P235: Store in a well-ventilated place. Keep cool.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

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# Transport/storage

- ADR: 3 F1 II UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
- IMDG: 3 II UN 1170 ETHYL ALCOHOL
- IATA/ICAO: 3 II UN 1170 ETHYL ALCOHOL

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- PAX: 353
- CAO: 364
- 10°C 30°C