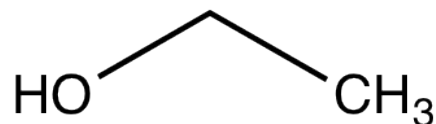


Identification

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









Applications

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

Specifications

assay (G.C.) (v/v).....	min. 99,9 %	lithium (Li).....	max. 0,000002 %
identity (IR-spectrum).....	passes test	magnesium (Mg).....	max. 0,00001 %
density (20°/4°).....	0,789 - 0,790	manganese (Mn).....	max. 0,000002 %
appearance.....	clear	molybdenum (Mo).....	max. 0,000005 %
colour (Hazen).....	max. 10	nickel (Ni).....	max. 0,000002 %
acidity.....	max. 0,0002 meq/g	platinum (Pt).....	max. 0,000002 %
solubility in water.....	passes test	silver (Ag).....	max. 0,000002 %
acidity or alkalinity.....	max. 0,0003 %	thallium (Tl).....	max. 0,000002 %
chlorides (Cl).....	max. 0,00003 %	tin (Sn).....	max. 0,00001 %
nitrates (NO ₃).....	max. 0,00003 %	titanium (Ti).....	max. 0,000002 %
phosphates (as PO ₄).....	max. 0,00003 %	vanadium (V).....	max. 0,000002 %
sulfates (SO ₄).....	max. 0,00003 %	zinc (Zn).....	max. 0,00001 %
aluminium (Al).....	max. 0,00005 %	zirconium (Zr).....	max. 0,000002 %
antimony (Sb).....	max. 0,000002 %	formaldehyde.....	max. 0,0005 %
arsenic (As).....	max. 0,000002 %	furfural.....	passes test
barium (Ba).....	max. 0,00001 %	fusel oil.....	passes test
beryllium (Be).....	max. 0,000002 %	acetaldehyde and acetal (G.C.).....	max. 0,001 %
bismuth (Bi).....	max. 0,000002 %	acetone (G.C.).....	max. 0,001 %
boron (B).....	max. 0,000002 %	isoamyl alcohol (G.C.).....	max. 0,05 %
cadmium (Cd).....	max. 0,000005 %	benzene (G.C.).....	max. 0,0002 %
calcium (Ca).....	max. 0,00005 %	methanol (G.C.).....	max. 0,01 %
chromium (Cr).....	max. 0,000002 %	methylethylketone (G.C.).....	max. 0,02 %
cobalt (Co).....	max. 0,000002 %	2-propanol (G.C.).....	max. 0,003 %
copper (Cu).....	max. 0,000002 %	higher alcohols (G.C.).....	max. 0,01 %
gallium (Ga).....	max. 0,000002 %	aldehydes (as CH ₃ CHO).....	max. 0,001 %
gold (Au).....	max. 0,000002 %	carbonyl compounds (as CO).....	max. 0,003 %
indium (In).....	max. 0,000002 %	substances darkened by H ₂ SO ₄	passes test
iron (Fe).....	max. 0,00001 %	UV spectroscopy.....	passes test
lead (Pb).....	max. 0,00001 %	substances reducing KMnO ₄	passes test
		residue on evaporation.....	max. 0,0005 %
		water (v/v) (K.F.).....	max. 0,1 %

Packaging
Packaging Code

1 |  ET00051000
 2,5 |  ET00052500
 5 |  ET0005005P
 7 |  ET0005007E
 25 |  ET0005025A
 25 |  ET0005025P
 25 |  ET0005025S
 200 |  ET0005200L

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: 12 °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/m³
- Expl. limit (upper): 15 Vol%
- Expl. limit (lower): 3,5 Vol%
- pH(10 g/l H₂O, 20 °C) 7,0

Safety - GHS

Signal Word: Danger



Hazard Statements:

H225: Highly flammable liquid and vapour.

Precautionary Statements:

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

P241: Use explosion-proof electrical / ventilating / lighting / equipment.

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P240: Ground/bond container and receiving equipment.

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

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

Toxicological data

- LD 50 (oral, rat): 6200 mg/kg
- MAK: 500 ml/m³, 960 mg/m³
- WGK: 1
- Poison class CH (Swiss): F

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
- PAX: 353
- CAO: 364