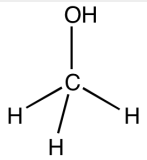
ME0304
Methanol, dried (max. 0,005% H2O), ExpertQ® (Karl Fischer)

Identification

CH_3OH
M = 32,04 g/mol
CAS [67-56-1]
EC number: 200-659-6
Taric code: 2905 11 00



Synonyms

Methyl alcohol, Carbinol, Methynol, Wood alcohol

Applications

solvents, synthesis of organic products, in antifreeze compositions, solvent for animal and vegetable oils extractions.

Specifications

assay (G.C.)	min. 99,8 %	lead (Pb)	max. 0,02 ppm
identity (IR-spectrum)	passes test	lithium (Li)	max. 0,05 ppm
density (20°/4°)	0,790 - 0,792	magnesium (Mg)	max. 0,1 ppm
appearance	clear	manganese (Mn)	max 0,01 ppm
colour (Hazen)	max. 10	molybdenum (Mo)	max. 0,02 ppm
solubility in water	passes test	nickel (Ni)	max. 0,02 ppm
acidity	max. 0,0003 meq/g	platinum (Pt)	max. 0,05 ppm
alkalinity	max. 0,0002 meq/g	silver (Ag)	max. 0,02 ppm
chlorides (Cl)	max. 0,00005 %	thallium (Tl)	max. 0,02 ppm
sulfates (SO_4)	max. 0,0001 %	tin (Sn)	max. 0,1 ppm
aluminium (Al)	max. 0,5 ppm	titanium (Ti)	max. 0,02 ppm
arsenic (As)	max. 0,02 ppm	vanadium (V)	max. 0,02 ppm
barium (Ba)	max. 0,1 ppm	zinc (Zn)	max. 0,1 ppm
beryllium (Be)	max. 0,02 ppm	zirconium (Zr)	max. 0,02 ppm
bismuth (Bi)	max. 0,02 ppm	acetone (G.C.)	max. 0,001 %
boron (B)	max. 0,02 ppm	ethanol (G.C.)	max. 0,1 %
cadmium (Cd)	max. 0,05 ppm	aldehydes and ketones (as C_2H_5CHO)	max. 0,001 %
calcium (Ca)	max. 0,5 ppm	acetaldehyde (CH_3CHO)	max. 0,001 %
chromium (Cr)	max. 0,02 ppm	formaldehyde	max. 0,0001 %
cobalt (Co)	max. 0,02 ppm	substances reducing KMnO4	passes test
copper (Cu)	max. 0,02 ppm	substances darkened by H_2SO_4	passes test
gallium (Ga)	max. 0,02 ppm	residue on evaporation	max. 0,0005 %
gold (Au)	max. 0,02 ppm	water (K.F.)	max. 0,005 %
indium (In)	max. 0,02 ppm		
iron (Fe)	max. 0,1 ppm		

Physical data

- Density: 0,792 g/cm3
- Solub. in water: (20 °C): miscible
- Melting point: -98 °C
- Boiling point: 65 °C
- Flash point: 10 °C
- Ignition temperature: 455 °C
- Vapour pressure: (20 °C) 128 hPa
- Refraction index: (n 20 °C/D) 1,3288
- Viscosity: (20 °C) 0,52 mPas
- Dipolar moment: (20 °C) 1,7 Debye
- Dielectric const.: (25 °C) 32,6
- Evap. heat: (65 °C) 1100 KJ/kg
- Saturation conc.: (20 °C) 166 g/m^3
- Expl. limit (upper): 44 Vol%
- Expl. limit (lower): < 5,5 Vol%
- pH7
- Hygroscopic

Safety - GHS

Signal Word: Danger

Hazard Statements:

H225: Highly flammable liquid and vapour.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H331: Toxic if inhaled.
H370: Causes damage to organs.

Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical / ventilating / lighting / equipment.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P361: Remove / Take off immediately all contaminated clothing.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 5628 mg/kg
- MAK: 200 ml/m^3 , 270 mg/m^3
- WGK: 1
- Poison class CH (Swiss): 3

Transport/storage

- ADR: 3 FT1 II • UN 1230 • METHANOL
- IMDG: 3 II • UN 1230 • METHANOL
- IATA/ICAO: 3 II • UN 1230 • METHANOL
- PAX: 352
- CAO: 364
- Store between 15ºC and 25ºC