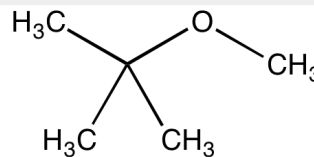


Identification

$C_5H_{12}O$
 M = 88,15 g/mol
 CAS [1634-04-4]
 EC number: 216-653-1
 Taric code: 2909 19 90


Synonyms

Methyl tert-butyl ether, MTBE

Applications

analytical chemistry, laboratory reagent, chromatography, solvents, as gasoline additive.

Specifications

assay (G.C.).....	min. 99,8 %	min. transmission/max. absorbance	
identity (IR-spectrum).....	passes test	in a 1,0 cm cell at	
density (20°/4°).....	0,740 - 0,742	wavelength:	T(%) A (AU)
acidity.....	max. 0,0002 meq/g	240 nm.....	50 % 0,301 AU
alkalinity.....	max. 0,0002 meq/g	255 nm.....	80 % 0,097 AU
residue on evaporation.....	max. 0,0002 %	280 nm.....	98 % 0,009 AU
water (K.F.).....	max. 0,02 %		

Microfiltered through membranes
of pore diameter 0,22 µm

Physical data

- Density: 0,74 g/cm³
- Solub. in water: (10 °C): ~ 26 g/l
- Melting point: -110 °C
- Boiling point: 55 °C
- Flash point: -28 °C
- Ignition temperature: 460 °C
- Vapour pressure: (20 °C) 268 hPa
- Refraction index: (25 °C) 1,3664
- Viscosity: (20 °C) 0,27 mPas
- Evap. heat: (55 °C) 342 KJ/kg
- Expl. limit (upper): 8,4 Vol%
- Expl. limit (lower): 1,65 Vol%

Safety - GHS

Signal Word: Danger

Hazard Statements:

H225: Highly flammable liquid and vapour.
 H315: Causes skin irritation.


Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
 P240: Ground/bond container and receiving equipment.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.

Toxicological data

- LD 50 (oral, rat): 3870 mg/kg
- MAK: 50 ml/m³, 180 mg/m³
- WGK: 1

Transport/storage

- ADR: 3 F1 II • UN 2398 • METHYL tert-BUTYL ETHER
- IMDG: 3 II • UN 2398 • METHYL TERT-BUTYL ETHER
- IATA/ICAO: 3 II • UN 2398 • METHYL TERT-BUTYL ETHER
- PAX: 353
- CAO: 364
- Store between 15°C and 25°C