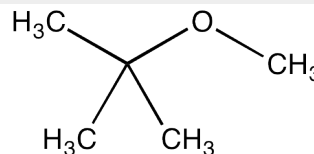


Identification

$C_5H_{12}O$
 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. 99,5 %	cobalt (Co).....	max. 0,000002 %
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 0,000002 %
density (20°/4°).....	0,740 - 0,742	iron (Fe).....	max. 0,00001 %
refractive index n ₂₀ /D.....	1,368 - 1,370	lead (Pb).....	max. 0,00001 %
colour (Hazen).....	max. 10	magnesium (Mg).....	max. 0,00001 %
acidity.....	max. 0,0005 meq/g	manganese (Mn).....	max. 0,000002 %
alkalinity.....	max. 0,0002 meq/g	nickel (Ni).....	max. 0,000002 %
aluminium (Al).....	max. 0,00005 %	tin (Sn).....	max. 0,00001 %
barium (Ba).....	max. 0,00001 %	zinc (Zn).....	max. 0,00001 %
boron (B).....	max. 0,000002 %	peroxides (as H ₂ O ₂).....	max. 0,0005 %
cadmium (Cd).....	max. 0,000005 %	residue on evaporation.....	max. 0,001 %
calcium (Ca).....	max. 0,00005 %	water (K.F.).....	max. 0,03 %
chromium (Cr).....	max. 0,000002 %		

Packaging
Packaging Code

1 l  ME05511000
 2,5 l  ME05512500
 7 l  ME0551007E
 25 l  ME0551025S

Physical data

- Density: 0,74 g/cm³
- Solub. in water: (10 °C): ~ 26 g/l
- Melting point: -108,6 °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.
 P241: Use explosion-proof electrical / ventilating / lighting / equipment.
 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.
 P321: Specific treatment (see on this label).
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

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: 305
- CAO: 307
- Store between 15°C and 25°C