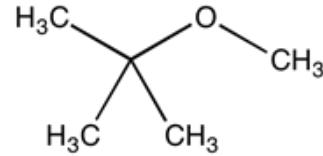


## tert-Butyl methyl ether, EssentQ®

**Identification**

C<sub>5</sub>H<sub>12</sub>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 %	iron (Fe).....	max. 0,2 ppm
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,2 ppm
density (20°/4°).....	0,740 - 0,742	nickel (Ni).....	max. 0,2 ppm
acidity.....	max. 0,002 meq/g	peroxides (as H <sub>2</sub> O <sub>2</sub> ).....	max. 0,005 %
copper (Cu).....	max. 0,2 ppm	residue on evaporation.....	max. 0,005 %
		water (K.F.).....	max. 0,05 %

**Physical data**

- Density: 0,74 g/cm<sup>3</sup>
- 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.  
P241: Use explosion-proof electrical / ventilating / lighting / equipment.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P370+P378: In case of fire: Use ... for extinction.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**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
- 10°C - 30°C