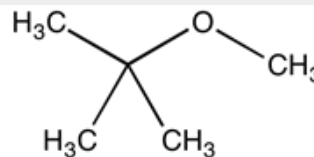


Identification

C₅H₁₂O
 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 in a 1,0 cm cell at |
| identity (IR-spectrum)..... | passes test | wavelength:..... T(%) A (AU) |
| density (20°/4°)..... | 0,740 - 0,742 | 240 nm..... 50 % 0,301 AU |
| acidity..... | max. 0,0002 meq/g | 255 nm..... 80 % 0,097 AU |
| alkalinity..... | max. 0,0002 meq/g | 280 nm..... 98 % 0,009 AU |
| residue on evaporation..... | max. 0,0002 % | |
| 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.
 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
- 15°C - 25°C