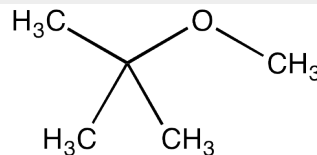


tert-Butyl methyl ether, HPLC grade

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 %
identity (IR-spectrum).....passes test
density (20°/4°).....0,740 - 0,742
acidity.....max. 0,0002 meq/g
alkalinity.....max. 0,0002 meq/g
residue on evaporation.....max. 0,0002 %
water (K.F.).....max. 0,02 %

min. transmission/max. absorbance in a 1,0 cm cell at
wavelength:.....T(%) A (AU)
240 nm.....50 % 0,301 AU
255 nm.....80 % 0,097 AU
280 nm.....98 % 0,009 AU

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