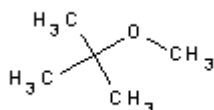


**PRODUCT CODE: 133312****tert-Butyl Methyl Ether (Reag. USP, Ph. Eur.) for analysis, ACS** $C_5H_{12}O$  $C_5H_{12}O$ 

M.= 88,15

CAS [1634-04-4]

EINECS 216-653-1

TARIC 2909 19 90 90

**SYNONYMS:** 1,1-Dimethyl ethyl methyl ether, 2-Methoxy-2-Methylpropane, Methyl-ter-Butyl Ether, MTB, MTBE

**PHYSICAL DATA:** liquid, Clear, Colourless, Soluble in water 51 g/l at 20 °C D 20/4 0,742 • M.P.: -109 °C • B.P.: 55,2 °C • n<sub>20/D</sub> : 1,3689 • Flash P.: -28 °C • Ign. T.: 460 °C • Vap. press. (20 °C) 268 hPa • Viscosity 25 °C 0,27 mPa.s • D. M. 20 °C 1,23 Debye • Heat evap. 55 °C 342 KJ/Kg • Expl. limit 1,7 %(V) 8,4 %(V) •

**BIBLIOGRAPHY:** Merck Index **12**, 6.111 13, 6.059 Sax **MHV**859 • Safety **2** , **641 A** • Beilstein **1** , **381 II** , **415 III** , **1576 IV** , **1615** • BRN 1730942 • Fieser **4333** • ACS **XI** •

**HAZARDOUS:** C.E: 603-181-00-X • RTECS: KN 5250000 • LD50 oral rat 4.000 mg/kg • LC50 inh rat 23576 ppm / 4h • VLA-ED 40 ppm 147 mg/m<sup>3</sup>



H: H225 • H315 •

P: P210 • P233 • P240 • P241 • P242 • P243 • P264 • P280 • P302+P352 • P303+P361+P353 • P321 • P332+P313 • P362 • P370+P378 • P403+P235 • P501 •

**TRANSPORT REGULATIONS:** UN: 2398 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

**WEIGHT/VOLUME INFORMATION:** 1l~0,740 kg      1kg~1,351 l

**SPECIFICATIONS:**

Minimum assay (G.C.)	99,8%
Identity :	
Identity	IR passes test
Density at 20/4	0,739-0,742
Refractive Index n <sub>20</sub> /D	1,368-1,370

**Maximum limit of impurities**

APHA colour	10
Acidity	0,0005 meq/g

Alkalinity	0,0002 meq/g
Non-volatile matter	0,001 %
Peroxides (as H <sub>2</sub> O <sub>2</sub> )	0,0001 %*
Aldehydes (as HCHO)	0,001%
Methanol (G.C.)	0,01%
2-Methyl-2-Propanol (G.C.)	0,05%
Water (H <sub>2</sub> O)	0,03 %
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 240 nm	<sup>3</sup> 50 %
Transmittance at 255 nm	<sup>3</sup> 80 %
Transmittance at 280 nm	<sup>3</sup> 98 %

Al	0,0005 %
Ca	0,00005 %
Cd	0,000005 %
Co	0,000002 %
Cr	0,000002 %
Cu	0,000002 %
Fe	0,00001 %
Mg	0,00001 %
Mn	0,000002 %
Ni	0,000002 %
Pb	0,00001 %
Zn	0,00001 %

**\* At the moment of the batch analysis.**