

**PRODUCT CODE: 133537****Tetrahydrofuran stabilized with ~ 300 ppm of BHT for analysis, ACS**C<sub>4</sub>H<sub>8</sub>OC<sub>4</sub>H<sub>8</sub>O

M.= 72,11

CAS [109-99-9]

EINECS 203-726-8

TARIC 2932 11 00 00

**SYNONYMS:** Diethylene Oxide, Tetramethylene Oxide, THF

**PHYSICAL DATA:** liquid, Clear, Colourless, Thermal decom. 110 °C • Miscible with water • D 20/4 0,889 • M.P.: -108,5 °C • B.P.: 66 °C • pH7,0 • n<sub>20</sub>/D : 1,407 • Flash P.: -22 °C • Ign. T.:230 °C • Vap. press. (20 °C) 173 hPa • Viscosity 25 °C 0,456 mPa.s • D. M. 20 °C 1,63 Debye • Dielec. constant20 °C 7,4 • Heat evap. 66 °C 411 KJ/Kg • Satur. conc. 20 °C 557 g/m<sup>3</sup> • Expl. limit2,3 %(V)12,7 %(V) •

**BIBLIOGRAPHY:** Merck Index **12**, 9.351 Sax **TCR750** • Safety **2**, **3273 B** • Kühn-Birett **T 8** • Ullmann (**5.**)12 , 121 • Beilstein **17** , **10 I** , **5 II** , **15 III/IV** ,**24 V** , **1/27** • BRN 102391 • Fieser **11140 2398 3278 5649 6570** • ACS **XI** •

**HAZARDOUS:** C.E: 603-025-00-0 • RTECS: LU 5950000 • LD50 oral rat 1.650 mg/kg • LC50 rat >14,7 mg/l / 6h • LD50 skn rat >2.000 mg/kg / (OECD 402) • VLA-EC 100 ppm300 mg/m<sup>3</sup> VLA-ED 50 ppm150 mg/m<sup>3</sup> PNEC Freshwater 4.32mg/l PNEC Marine water 0.432mg/l PNEC Sporadic release 21.6mg/l PNEC Purifying plant 4.6mg/l PNEC Sediment 23.3mg/kg PNEC Sediment 2.33mg/kg PNEC Soil 2.13mg/kg PNEC Oral use (secondary poisoning) 67mg/kg DNEL Workers Inhalation, long term (local) 150 mg/m<sup>3</sup> DNEL Workers Inhalation, long term (systemic) 50 ppm DNEL Workers Dermal, long exposure (systemic) 25mg/kg DNEL Population Inhalation, long term (systemic) 62 mg/m<sup>3</sup> DNEL Population, Dermal, long exposure (systemic) 15mg/kg DNEL Population Inhalation, acute (local) 150 mg/m<sup>3</sup> DNEL Population Inhalation, acute (systemic) 150 mg/m<sup>3</sup>



H: H225 • EUH019 • H319 • H335 • H351 •

P: P210 • P261 • P303+P361+P353 • P304+P340 • P305+P351+P338 • P501 •

**TRANSPORT REGULATIONS:** UN: 2056 • ADR: 3/II • IMDG: 3/II • IATA: 3/II • PAX: 353 • CAO: 364 • (D/E) •

**WEIGHT/VOLUME INFORMATION:** 1l~0,890 kg      1kg~1,124 l

**SPECIFICATIONS:**

Minimum assay (G.C.)	99,5%
Identity :	
Identity	IR passes test

**Maximum limit of impurities**

APHA colour	20
Acidity	0,0005 meq/g

Non-volatile matter	0,03 %
Peroxides (as H <sub>2</sub> O <sub>2</sub> )	0,015 %*
1-Butanol (G.C.)	0,05%
1-Propanol (G.C.)	0,05%
2-Propanol (G.C.)	0,05%
Acetone (G.C.)	0,05%
Water (H <sub>2</sub> O)	0,05 %

**Metals by ICP [in mg/Kg (ppm)]**

Ag	0,05
Al	0,5
As	0,05
Au	0,05
B	0,02
Ba	0,1
Be	0,02
Bi	0,05
Ca	0,5
Cd	0,05
Co	0,02
Cr	0,02
Cu	0,02
Fe	0,1
Ga	0,02
Ge	0,05
Hg	0,05
In	0,05
K	0,1
Li	0,05
Mg	0,1
Mn	0,02
Mo	0,02
Na	0,5
Ni	0,02
P	0,2
Pb	0,1
Pt	0,02
S	0,2
Sb	0,02
Si	0,2
Sn	0,1

Sr	0,2
Ti	0,02
Tl	0,02
V	0,02
Zn	0,1
Zr	0,02

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

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