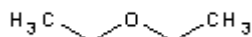


**PRODUCT CODE: 362551**

**Diethyl Ether stabilized with ethanol for UV, IR, HPLC**

$C_4H_{10}O$

$C_2H_5OC_2H_5$



M.= 74,12

CAS [60-29-7]

EINECS 200-467-2

TARIC 2909 11 00 00

**SYNONYMS:** 1,1'-Oxibisethane, Diethyl Ether, Ethoxyethane, Ethyl Ether, Ethyl Oxide, Sulphuric Ether

**PHYSICAL DATA:** liquid, Clear, Colourless, Soluble in water 69 g/l at 20 °C D 20/4 0,71 • M.P.: -116 °C • B.P.: 34,6 °C • n<sub>20</sub>/D : 1,3526 • Flash P.: -40 °C • Vap. press. (20 °C) 587 hPa • Viscosity 20 °C 0,23 mPa.s • D. M. 20 °C 1,25 Debye • Dielec. constant 20 °C 4,3 • Evap. number (DIN 53170) 1 • Heat evap. 35 °C 392 KJ/Kg • Satur. conc. 20 °C 1176 g/m<sup>3</sup> • Expl. limit 1,7 % (V) 36 % (V) •

**BIBLIOGRAPHY:** Merck Index **12**, 3.852 13, 3.840 Sax **EJU000** • Safety **2** , **1549 A** • Kühn-Birett **A 19** • Beilstein **1** , **314 I** , **158 II** , **311 III** , **1289 IV** , **1314** • BRN 1696894 • ACS **XI** • ISO 6353/3-1987 R - 58 , 23 • BP.**2025** • USP **43** • Ph. Eur. **11.0** (2023) **10.0** (2019) •

**HAZARDOUS:** C.E: 603-022-00-4 • RTECS: KI 5775000 • LD L0 oral man 260 mg/kg • LD50 oral rat 1.215 mg/kg • LC50 inh rat 73000 ppm / 2h • VLA-EC 200 ppm 1.540 mg/m<sup>3</sup> VLA-ED 100 ppm 1.230 mg/m<sup>3</sup>



H: H224 • EUH019 • H302 • EUH066 • H336 •

P: P210 • P233 • P240 • P241 • P242 • P501 • P243 • P261 • P264 • P270 • P271 • P280 • P301+P312 • P303+P361+P353 • P304+P340 • P312 • P330 • P370+P378 • P403+P233 • P403+P235 • P405 •

**TRANSPORT REGULATIONS:** UN: 1155 • ADR: 3/I • IMDG: 3/I • IATA: 3/I • PAX: 351 • CAO: 361 • (D/E) •

**WEIGHT/VOLUME INFORMATION:** 1l~0,714 kg 1kg~1,401 l

**OBSERVATIONS:** Product controlled as a drug precursor. •

**SPECIFICATIONS:**

Minimum assay (G.C.)

98,0%

Density at 20/4	0,713-0,715
<b>Maximum limit of impurities</b>	
APHA colour	10
Acidity	0,0002 meq/g
Alkalinity	0,0002 meq/g
Non-volatile matter	0,0003 %
Peroxides (as H <sub>2</sub> O <sub>2</sub> )	0,0001 %*
Ethanol (G.C.)	~2 %
Water (H <sub>2</sub> O)	0,02 %
Suitability for IR spectrometry:	passes test
Fluorescence at 254 nm (as quinine)	2 ppb
Fluorescence at 365 nm (as quinine)	0,5 ppb
UV Spectrum (1cm cell; Ref.: water):	
Transmittance at 220 (Cut off) nm	≥ 10 %
Transmittance at 236 nm	≥ 50 %
Transmittance at 252 nm	≥ 80 %
Transmittance at 280 nm	≥ 94 %
Transmittance at 300-400 nm	≥ 99 %
Data of interest in HPLC:	
P' + 0,25 E	4,0
Rohrschneider Polarity	2,8
Eluotropic value E° (Al <sub>2</sub> O <sub>3</sub> )	0,38
Sol. H <sub>2</sub> O in solv. at 20°C	1,3

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

**For critical jobs, purge with nitrogen.**

**Microfiltered product (0.2 µm) and bottled under nitrogen atmosphere.**