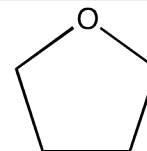


Identification

C_4H_8O
 M = 72,11 g/mol
 CAS [109-99-9]
 EC number: 203-726-8
 Taric code: 2932 11 00


Synonyms

THF, Tetramethylene oxide, Oxolane





Applications

solvents, synthesis of polymers, synthesis of organic products, for organometallic compounds synthesizing, for histology.

Specifications

assay (G.C.).....	min. 99,9 %	min. transmission/max. absorbance	
identity (IR-spectrum).....	passes test	in a 1,0 cm cell at	
density (20°/4°).....	0,887 - 0,889	wavelength:	T(%) A (AU)
acidity.....	max. 0,0002 meq/g	230 nm.....	35 % 0,456 AU
alkalinity.....	max. 0,0002 meq/g	243 nm.....	50 % 0,301 AU
peroxides (as H ₂ O ₂).....	max. 0,02 %	273 nm.....	90 % 0,046 AU
residue on evaporation.....	max. 0,0001 %		
water (K.F.).....	max. 0,02 %	Microfiltered through membranes	
		of pore diameter 0,22 µm	

Packaging
Packaging Code

1 l  TE02251000
 2,5 l  TE02252500
 4 l  TE02254000
 20 l  TE0225020S

Physical data

- Density: 0,89 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -108,5 °C
- Boiling point: 65 - 66 °C
- Flash point: -21,5 °C
- Ignition temperature: 215 °C
- Vapour pressure: (20°C) 173 hPa
- Refraction index: (n 20 °C/D) 1,407
- Viscosity: (20 °C) 0,47 mPas
- Dipolar moment: (20 °C) 1,63 Debye
- Dielectric const.: (20 °C) 7,4
- Saturation conc.: (20 °C) 557 g/m³
- Expl. limit (upper): 12,4 Vol%
- Expl. limit (lower): 1,5 Vol%
- pH(200 g/l H₂O, 20 °C) 7 - 8

Safety - GHS

Signal Word: Danger


Hazard Statements:

H225: Highly flammable liquid and vapour.
 H351: Suspected of causing cancer.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 EUH019: May form explosive peroxides.

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.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405: Store locked up.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 1650 mg/kg
- MAK: 50 ml/m³, 150 mg/m³
- WGK: 1
- Poison class CH (Swiss): 3

Transport/storage

- ADR: 3 F1 II • UN 2056 • TETRAHYDROFURAN
- IMDG: 3 II • UN 2056 • TETRAHYDROFURAN
- IATA/ICAO: 3 II • UN 2056 • TETRAHYDROFURAN
- PAX: 305
- CAO: 307
- Store between 15°C and 25°C