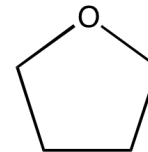


Tetrahydrofuran, 99,8%, anhydrous (max. 0,005% H₂O), stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

Identification

C₄H₈O
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. 99,8 %	cobalt (Co).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 0,02 ppm
density (20°/20°).....	0,889 - 0,891	iron (Fe).....	max. 0,1 ppm
appearance.....	clear	lead (Pb).....	max. 0,1 ppm
colour (Hazen).....	max. 10	magnesium (Mg).....	max. 0,02 ppm
acidity.....	max. 0,0003 meq/g	manganese (Mn).....	max. 0,02 ppm
alkalinity.....	max. 0,0002 meq/g	nickel (Ni).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	tin (Sn).....	max. 0,1 ppm
barium (Ba).....	max. 0,1 ppm	zinc (Zn).....	max. 0,1 ppm
boron (B).....	max. 0,02 ppm	peroxides (as H ₂ O ₂).....	max. 0,005 %
cadmium (Cd).....	max. 0,05 ppm	residue on evaporation.....	max. 0,025 %
calcium (Ca).....	max. 0,5 ppm	water (K.F.).....	max. 0,005 %
chromium (Cr).....	max. 0,02 ppm		

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.

Tetrahydrofuran, 99,8%, anhydrous (max. 0,005% H₂O), stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

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: 353
- CAO: 364
- Store between 15°C and 25°C