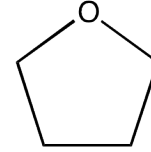


**Tetrahydrofuran, 99,8%, anhydrous (max. 0,005% H<sub>2</sub>O), stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)**

### Identification

C<sub>4</sub>H<sub>8</sub>O  
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 %       | chromium (Cr).....                                 | max. 0,02 ppm |
| identity (IR-spectrum)..... | passes test       | cobalt (Co).....                                   | max. 0,02 ppm |
| density (20°/20°).....      | 0,889 - 0,891     | copper (Cu).....                                   | max. 0,02 ppm |
| appearance.....             | clear             | iron (Fe).....                                     | max. 0,1 ppm  |
| colour (Hazen).....         | max. 10           | lead (Pb).....                                     | max. 0,1 ppm  |
| acidity.....                | max. 0,0003 meq/g | magnesium (Mg).....                                | max. 0,02 ppm |
| alkalinity.....             | max. 0,0002 meq/g | manganese (Mn).....                                | max. 0,02 ppm |
| aluminium (Al).....         | max. 0,5 ppm      | nickel (Ni).....                                   | max. 0,02 ppm |
| barium (Ba).....            | max. 0,1 ppm      | tin (Sn).....                                      | max. 0,1 ppm  |
| boron (B).....              | max. 0,02 ppm     | zinc (Zn).....                                     | max. 0,1 ppm  |
| cadmium (Cd).....           | max. 0,05 ppm     | peroxides (as H <sub>2</sub> O <sub>2</sub> )..... | max. 0,005 %  |
| calcium (Ca).....           | max. 0,5 ppm      | residue on evaporation.....                        | max. 0,025 %  |
|                             |                   | water (K.F.).....                                  | max. 0,005 %  |

### Physical data

- Density: 0,89 g/cm<sup>3</sup>
- 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/m<sup>3</sup>
- Expl. limit (upper): 12,4 Vol%
- Expl. limit (lower): 1,5 Vol%
- pH(200 g/l H<sub>2</sub>O, 20 °C) 7 - 8

### Safety - GHS

**Signal Word:** Danger

#### Hazard Statements:

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



#### Precautionary Statements:

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
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.  
P370+P378: In case of fire: Use ... for extinction.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

### 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
- 10°C - 30°C