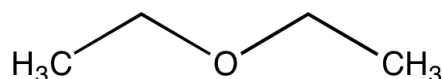


**Diethyl ether, 99,7%, anhydrous (max. 0,005% H<sub>2</sub>O), stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)**

**Identification**

C<sub>4</sub>H<sub>10</sub>O  
M = 74,12 g/mol  
CAS [60-29-7]  
EC number: 200-467-2  
Taric code: 2909 11 00


**Synonyms**

Ethyl ether, Ethyl oxide, Ether

**Applications**

solvents, synthesis of organic products, solvent for active principles from plant and animal tissues extractions.

**Specifications**

assay (G.C.).....	min. 99,7 %	copper (Cu).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,1 ppm
density (20°/4°).....	0,713 - 0,715	lead (Pb).....	max. 0,1 ppm
appearance.....	clear	magnesium (Mg).....	max. 0,1 ppm
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,02 ppm
acidity.....	max. 0,0002 meq/g	nickel (Ni).....	max. 0,02 ppm
alkalinity.....	max. 0,0002 meq/g	tin (Sn).....	max. 0,1 ppm
chlorides (Cl).....	max. 0,00003 %	zinc (Zn).....	max. 0,1 ppm
sulfates (SO <sub>4</sub> ).....	max. 0,00003 %	acetone (G.C.).....	max. 0,005 %
aluminium (Al).....	max. 0,5 ppm	ethanol (G.C.).....	max. 0,02 %
barium (Ba).....	max. 0,1 ppm	methanol (G.C.).....	max. 0,02 %
boron (B).....	max. 0,02 ppm	carbonyl compounds (as CH <sub>3</sub> CHO).....	max. 0,001 %
cadmium (Cd).....	max. 0,05 ppm	peroxides (as H <sub>2</sub> O <sub>2</sub> ).....	max. 0,002 %
calcium (Ca).....	max. 0,5 ppm	sulphur compounds (as S).....	max. 0,00006 %
chromium (Cr).....	max. 0,02 ppm	residue on evaporation.....	max. 0,001 %
cobalt (Co).....	max. 0,02 ppm	water (K.F.).....	max. 0,005 %

**Physical data**

- Density: 0,71 g/cm<sup>3</sup>
- Solub. in water: (20 °C): 69 g/l
- Melting point: -116,3 °C
- Boiling point: 34,6 °C
- Flash point: -40 °C
- Ignition temperature: 170 °C
- Vapour pressure: (20 °C) 587 hPa
- Viscosity: (20 °C) 0,23 mPas
- Dipolar moment: (20 °C) 1,25 Debye
- Dielectric const.: (20 °C) 4,3
- Evap. heat: (35 °C) 392 KJ/kg
- Saturation conc.: (20 °C) 1776 g/m<sup>3</sup>
- Expl. limit (upper): 36 Vol%
- Expl. limit (lower): 1,7 Vol%

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H224: Extremely flammable liquid and vapour.  
H302: Harmful if swallowed.  
H336: May cause drowsiness or dizziness.  
EUH019: May form explosive peroxides.  
EUH066: Repeated exposure may cause skin dryness or cracking.


**Precautionary Statements:**

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
P241: Use explosion-proof electrical / ventilating / lighting / equipment.  
P261: Avoid breathing dust / fume / gas / mist / vapours / spray.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Diethyl ether**, 99,7%, anhydrous (max. 0,005% H<sub>2</sub>O), stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

#### Toxicological data

- LD 50 (oral, rat): 1215 mg/kg
- MAK: 400 ml/m<sup>3</sup>, 1200 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 4

#### Transport/storage

- ADR: 3 F1 | • UN 1155 • DIETHYL ETHER (ETHYL ETHER)
- IMDG: 3 I | • UN 1155 • DIETHYL ETHER
- IATA/ICAO: 3 I | • UN 1155 • DIETHYL ETHER
- PAX: 302
- CAO: 303
- Store between 15°C and 25°C