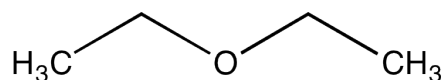


Diethyl ether, 99,7%, anhydrous (max. 0,005% H₂O), stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

Identification

C₄H₁₀O
 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. 0,000002 %
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,00001 %
density (20°/4°).....	0,713 - 0,715	lead (Pb).....	max. 0,00001 %
appearance.....	clear	magnesium (Mg).....	max. 0,00001 %
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,000002 %
acidity.....	max. 0,0002 meq/g	nickel (Ni).....	max. 0,000002 %
alkalinity.....	max. 0,0002 meq/g	tin (Sn).....	max. 0,00001 %
chlorides (Cl).....	max. 0,00003 %	zinc (Zn).....	max. 0,00001 %
sulfates (SO ₄).....	max. 0,00003 %	acetone (G.C.).....	max. 0,005 %
aluminium (Al).....	max. 0,00005 %	ethanol (G.C.).....	max. 0,02 %
barium (Ba).....	max. 0,00001 %	methanol (G.C.).....	max. 0,02 %
boron (B).....	max. 0,000002 %	carbonyl compounds (as CH ₃ CHO).....	max. 0,001 %
cadmium (Cd).....	max. 0,000005 %	peroxides (as H ₂ O ₂).....	max. 0,002 %
calcium (Ca).....	max. 0,00005 %	sulfur compounds (as S).....	max. 0,00006 %
chromium (Cr).....	max. 0,000002 %	residue on evaporation.....	max. 0,001 %
cobalt (Co).....	max. 0,000002 %	water (K.F.).....	max. 0,005 %

Packaging
Packaging Code

100 ml  ET00830100
 500 ml  ET00830500
 1 l  ET00830500

Physical data

- Density: 0,71 g/cm³
- 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/m³
- 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% H₂O), 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/m³, 1200 mg/m³
- WGK: 1
- Poison class CH (Swiss): 4

Transport/storage

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