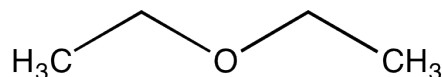


Diethyl ether, for analysis, ExpertQ®, ACS, Reag. Ph Eur, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

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. 99,8 %	copper (Cu).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,1 ppm
density (20°/20°).....	0,713 - 0,715	lead (Pb).....	max. 0,1 ppm
distillation range.....	34,0 - 35,0 °C	magnesium (Mg).....	max. 0,1 ppm
appearance.....	clear and colourless	manganese (Mn).....	max. 0,02 ppm
colour (Hazen).....	max. 10	nickel (Ni).....	max. 0,02 ppm
acidity.....	max. 0,0002 meq/g	tin (Sn).....	max. 0,1 ppm
alkalinity.....	max. 0,0002 meq/g	zinc (Zn).....	max. 0,1 ppm
alcohol (as ethanol).....	passes test	acetone (G.C.).....	max. 0,005 %
chlorides (Cl).....	max. 0,00003 %	ethanol (G.C.).....	max. 0,02 %
sulfates (SO ₄).....	max. 0,00003 %	methanol (G.C.).....	max. 0,02 %
aluminium (Al).....	max. 0,5 ppm	carbonyl compounds (as CO).....	max. 0,001 %
barium (Ba).....	max. 0,1 ppm	carbonyl compounds (as HCHO).....	max. 0,001 %
boron (B).....	max. 0,02 ppm	peroxides (as H ₂ O ₂).....	max. 0,000015 %
cadmium (Cd).....	max. 0,05 ppm	peroxides	passes test
calcium (Ca).....	max. 0,5 ppm	substances darkened by H ₂ SO ₄	passes test
chromium (Cr).....	max. 0,02 ppm	residue on evaporation.....	max. 0,001 %
cobalt (Co).....	max. 0,02 ppm	water (K.F.).....	max. 0,01 %

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.
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
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.

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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
- 15°C - 25°C