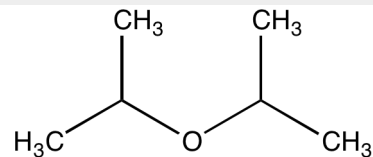


Diisopropyl ether, for analysis, ExpertQ®, ACS, stabilized with approx. 50 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)
Identification

$C_6H_{14}O$
 M = 102,18 g/mol
 CAS [108-20-3]
 EC number: 203-560-6
 Taric code: 2909 19 00


Synonyms

Isopropyl ether, 2,2'-Oxybis[propane], 2,2-Propoxypropane

Applications

analytical chemistry, solvents.

Specifications

assay (G.C.).....	min. 99,5 %	cobalt (Co).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 0,02 ppm
density (20°/4°).....	0,722 - 0,724	iron (Fe).....	max. 0,1 ppm
appearance.....	clear	lead (Pb).....	max. 0,1 ppm
colour (Hazen).....	max. 10	lithium (Li).....	max. 0,1 ppm
acidity.....	max. 0,0005 meq/g	magnesium (Mg).....	max. 0,1 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 $C_6H_{14}O_2$).....	max. 0,001 %
calcium (Ca).....	max. 0,5 ppm	residue on evaporation.....	max. 0,005 %
chromium (Cr).....	max. 0,02 ppm	water (K.F.).....	max. 0,05 %

Physical data

- Density: 0,72 g/cm³
- Solub. in water: (20 °C): 12 g/l
- Melting point: -86 °C
- Boiling point: 67 - 70 °C
- Flash point: -28 °C
- Ignition temperature: 405 °C
- Vapour pressure: (20 °C) 175 hPa
- Viscosity: (25 °C) 0,37 mPas
- Dipolar moment: (20 °C) 1,3 Debye
- Dielectric const.: (25 °C) 3,8
- Evap. heat: (68 °C) 285 KJ/kg
- Saturation conc.: (20 °C) 751 g/m³
- Expl. limit (upper): 21 Vol%
- Expl. limit (lower): 1,0 Vol%
- pH(20 °C) ~ 7

Safety - GHS

Signal Word: Danger


Hazard Statements:

- H225: Highly flammable liquid and vapour.
 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.

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- LD 50 (oral, rat): 8470 mg/kg
- MAK: 200 ml/m³, 850 mg/m³
- WGK: 1
- Poison class CH (Swiss): 4

Transport/storage

- ADR: 3 F1 II • UN 1159 • DIISOPROPYL ETHER
- IMDG: 3 II • UN 1159 • DIISOPROPYL ETHER
- IATA/ICAO: 3 II • UN 1159 • DIISOPROPYL ETHER
- PAX: 305
- CAO: 307
- Store between 15°C and 25°C