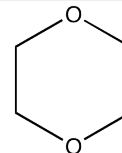


1,4-Dioxane, 99,5%, anhydrous (max. 0,005% H₂O), stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

Identification

C₄H₈O₂
M = 88,11 g/mol
CAS [123-91-1]
EC number: 204-661-8
Taric code: 2932 99 00


Synonyms

Glycolethylether, 1,4-Diethylene dioxide, 1,4-Dioxacyclohexane




Applications

solvents, analytical chemistry.

Specifications

assay (G.C.).....	min. 99,5 %	iron (Fe).....	max. 0,00001 %
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,00001 %
density (20°/20°).....	1,034 - 1,036	magnesium (Mg).....	max. 0,00001 %
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,000002 %
acidity.....	max. 0,0008 meq/g	nickel (Ni).....	max. 0,000002 %
melting point.....	min. 11,0 °C	tin (Sn).....	max. 0,00001 %
aluminium (Al).....	max. 0,00005 %	zinc (Zn).....	max. 0,00001 %
barium (Ba).....	max. 0,00001 %	acetaldehyde (G.C.).....	max. 0,005 %
boron (B).....	max. 0,000002 %	formaldehyde (G.C.).....	max. 0,05 %
cadmium (Cd).....	max. 0,000005 %	peroxides (as H ₂ O ₂).....	max. 0,005 %
calcium (Ca).....	max. 0,00005 %	carbonyl compounds (as HCHO).....	max. 0,01 %
chromium (Cr).....	max. 0,000002 %	residue on evaporation.....	max. 0,0005 %
cobalt (Co).....	max. 0,000002 %	water (K.F.).....	max. 0,005 %
copper (Cu).....	max. 0,000002 %		

Packaging
Packaging Code

DI128801  DI12880100
DI128801  DI12880100
1 I  DI12880100

Physical data

- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 12 °C
- Boiling point: 101,5 °C
- Flash point: 11 °C
- Ignition temperature: 300 °C
- Vapour pressure: (20 °C) 41 hPa
- Viscosity: (25 °C) 1,2 mPas
- Dipolar moment: (20 °C) 0,4 Debye
- Dielectric const.: (25 °C) 2,2
- Evap. heat: (101 °C) 413 KJ/kg
- Saturation conc.: (20 °C) 149 g/m³
- Expl. limit (upper): 25,2 Vol%
- Expl. limit (lower): 1,7 Vol%
- pH(500 g/l H₂O, 20 °C) 6 - 8

Safety - GHS
Signal Word: Danger

Hazard Statements:

- H225: Highly flammable liquid and vapour.
H351: Suspected of causing cancer.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
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.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

1,4-Dioxane, 99,5%, anhydrous (max. 0,005% H₂O), stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

Toxicological data

- LD 50 (oral, rat): 5200 mg/kg
- MAK: 20 ml/m³, 73 mg/m³
- WGK: 2
- Poison class CH (Swiss): 4

Transport/storage

- ADR: 3 F1 II • UN 1165 • DIOXANE
- IMDG: 3 II • UN 1165 • DIOXANE
- IATA/ICAO: 3 II • UN 1165 • DIOXANE
- PAX: 305
- CAO: 307
- Store between 15°C and 25°C