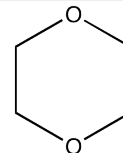


1,4-Dioxane, extra pure, stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

Identification

$C_4H_8O_2$
 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 % | nickel (Ni)..... | max. 0,00002 % |
| identity (IR-spectrum)..... | passes test | acetal (G.C.)..... | max. 0,1 % |
| density (20°/4°)..... | 1,032 - 1,034 | acetaldehyde (G.C.)..... | max. 0,01 % |
| acidity..... | max. 0,001 meq/g | carbonyl compounds (as HCHO)..... | max. 0,1 % |
| copper (Cu)..... | max. 0,00002 % | peroxides (as H ₂ O ₂)..... | max. 0,005 % |
| iron (Fe)..... | max. 0,00005 % | residue on evaporation..... | max. 0,002 % |
| lead (Pb)..... | max. 0,00002 % | water (K.F.)..... | max. 0,1 % |

Packaging
Packaging Code

1 l  DI12871000
 2,5 l  DI12872500
 5 l  DI1287005L
 25 l  DI1287025A

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.

Toxicological data

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

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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