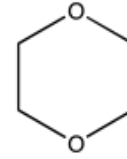


1,4-Dioxane, 99,5%, anhydrous (max. 0,005% H₂O), stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

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 %	copper (Cu).....	max. 0,02 ppm
identity (IR-spectrum).....	passes test	iron (Fe).....	max. 0,1 ppm
density (20°/20°).....	1,034 - 1,036	lead (Pb).....	max. 0,1 ppm
colour (Hazen).....	max. 10	magnesium (Mg).....	max. 0,1 ppm
acidity.....	max. 0,0008 meq/g	manganese (Mn).....	max. 0,02 ppm
melting point.....	min. 11,0 °C	nickel (Ni).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	tin (Sn).....	max. 0,1 ppm
barium (Ba).....	max. 0,1 ppm	zinc (Zn).....	max. 0,1 ppm
boron (B).....	max. 0,02 ppm	acetaldehyde (G.C.).....	max. 0,005 %
cadmium (Cd).....	max. 0,05 ppm	formaldehyde (G.C.).....	max. 0,05 %
calcium (Ca).....	max. 0,5 ppm	peroxides (as H ₂ O ₂).....	max. 0,005 %
chromium (Cr).....	max. 0,02 ppm	carbonyl compounds (as HCHO).....	max. 0,01 %
cobalt (Co).....	max. 0,02 ppm	residue on evaporation.....	max. 0,0005 %
		water (K.F.).....	max. 0,005 %

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.
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.
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 II • UN 1165 • DIOXANE
- IMDG: 3 II • UN 1165 • DIOXANE
- IATA/ICAO: 3 II • UN 1165 • DIOXANE
- PAX: 305
- CAO: 307
- 10°C - 30°C