



Specialized in chemicals

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Technical Data Sheet

1,4-Dioxane

Product Information

Chemical Name 1,4-Dioxane

Chemical Structure



CAS # 123-91-1

Formula C₄H₈O₂

Molecular Weight 88.11

Synonyms

1,4-Dioxacyclohexane;1,4-Dioxin, tetrahydro-;1,4-dioxin,tetrahydro;Diethyleneoxide;
Diethylendioxid;Diethylene oxide ethe;Diokan;Dioksan

Description

It is Colorless transparent liquid

Physical Properties

Characteristics] Colorless transparent liquid

[Acidity] $\leq 0.01\%$ (as CH₃COOH)

[Density] 1.030-1.035g/ml

[Freezing point] ≥ 11.0

[Residue on distillation] $\leq 0.01\%$

[Aldehyde] Meet the test

[Peroxide] $\leq 0.005\%$ (as H₂O₂)

Specification

| Item | Specification |
|-------------------------|------------------------------|
| Appearance | Colorless transparent liquid |
| Identification | Positive |
| Water, % | ≤0.10 |
| Acidity, % | ≤0.01 |
| Density, g/ml | 1.030~1.03 |
| Freezing Point, °C | 10.50~12.0 |
| Peroxide, % | ≤0.005 |
| Unvolatile substance, % | ≤0.01 |
| Aldehyde, % | Complies with standard |
| Assay, % | ≥99.50 |

Applications

- 1) It's a kind of solvent of synthetic leather of polyurethane and amino acid, resin-vegetable oil, mineral oil, pharmaceuticals, paint and dye, and a stabilizer of 1,1,1-trichloroethane.
- 2) It's also used for plasticizer and antioxidant.

Packaging

200kg per plastic or iron drum.
16.0mt per 20ft container

Storage & Handling

Precautions:

- Keep locked up..
- Keep away from heat. Keep away from sources of ignition.
- Ground all equipment containing material.
- Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes.
- Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
- If ingested, seek medical advice immediately and show the container or the label.
- Keep away from incompatibles such as oxidizing agents.

Storage:

- Store in a segregated and approved area.
- Keep container in a cool, well-ventilated area.
- Keep container tightly closed and sealed until ready for use.
- Avoid all possible sources of ignition (spark or flame).