

1,4-DIOXANE FOR HPLC & SPECTROSCOPY

PRODUCT CODE 729500

SYNONYMS N/A

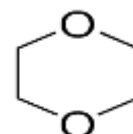
C.I. NO. N/A

CASR NO. 123-91-1

ATOMIC OR MOLECULAR FORMULA C₄H₈O₂

ATOMIC OR MOLECULAR WEIGHT 88.11

PROPERTIES ---



PARAMETER **LIMIT**

| | |
|-------------------------------------|---|
| Description | A clear liquid, not more than 10 Hazen units in colour with a characteristic odour. Dioxan readily takes up atmospheric oxygen on storage with the formation of explosive peroxides |
| Solubility | Miscible with water and with diethyl ether forming clear and colourless solution. |
| Minimum assay(By GC) | 99.7% |
| Wt. per ml at 20°C | 1.032 - 1.034 g |
| Refractive Index (n) _{D20} | 1.420-1.424 |
| Boiling Range | 100.0 - 102.0°C |

MAXIMUM LIMIT OF IMPURITIES

| | |
|---|--------|
| Water | 0.05% |
| Free acid (CH ₃ COOH) | 0.01% |
| Non volatile matter | 0.005% |
| Maximum Absorbance in a 1.0 cm cell at: | |
| 220 nm (UV cut off) | 1.0 |
| 270 nm | 0.1 |
| 300 nm | 0.01 |

Note(s): Assay (if applicable) method mentioned.

DANGER

HAZARD STATEMENTS :May cause respiratory irritation. Highly flammable liquid and vapour. Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation. Suspected of causing cancer.

PRECAUTIONARY STATEMENTS :

Prevention :Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Ground/bond container and receiving equipment. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use only non-sparking tools. Wear protective gloves and eye/face protection. Keep container tightly closed. Keep away from heat/sparks/open flame – No smoking. Take precautionary measures against static discharge. Use explosionproof electrical/ventilating/lighting/equipment.

Response :If eye irritation persists, get medical advice/attention. If skin irritation occurs, seek medical advice/attention. Wear eye/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. Specific treatment: refer to Label or MSDS. If exposed or concerned: Get medical attention advice.

Disposal :Allow to evaporate in safe open area (applicable for small quantities). The chemical should be burnt in a chemical incinerator equipped with burner and scrubber. After testing for peroxide the product should be given to specialized disposal company.

IMDG Code : 3/II
UN No. : 1165
IATA : 3

Hazard Pictogram(s) :



GHS02



GHS07



GHS08

Replace date 24-Nov-2025