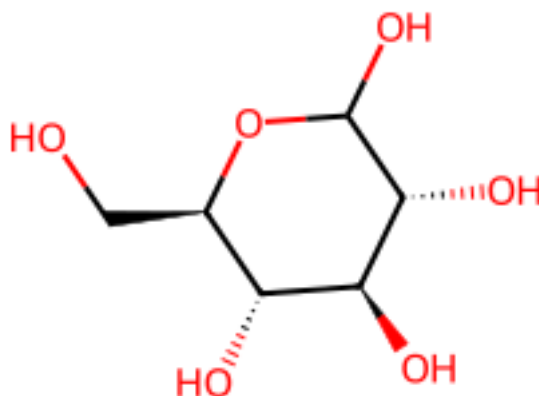


# DEXTROSE

(3R,4S,5S,6R)-6-(hydroxymethyl)oxane-2,3,4,5-tetrol

|          |                                               |
|----------|-----------------------------------------------|
| Formula  | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> |
| Mol. wt. | 180.0634 g/mol                                |
| InChIKey | WQZGKKKJIJFFOK-GASJEMHNSA-N                   |

## 1. MOLECULAR STRUCTURE 2D



## 2. HAZARD IDENTIFICATION (GHS)

### Hazard statements (H)

- Not Classified

## 3. NFPA 704 SYSTEM

NFPA 704 data not available.

## 4. ACUTE TOXICITY

LD50 data not available.

## 5. RELEVANT PHYSICAL AND CHEMICAL PROPERTIES

| Property            | Value                                                                                           | Unit | Source          |
|---------------------|-------------------------------------------------------------------------------------------------|------|-----------------|
| Boiling point       | greater than 212 °F at 760 mmHg (USCG, 1999)                                                    | —    | pubchem_pugview |
| Density             | 1.2 at 68 °F (est.) (USCG, 1999) - Denser than water; will sink                                 | —    | pubchem_pugview |
| LogP (experimental) | log Kow = -3.00                                                                                 | —    | pubchem_pugview |
| Melting point       | less than 32 °F (USCG, 1999)                                                                    | —    | pubchem_pugview |
| Vapor pressure      | 8.0X10 <sup>-14</sup> mm Hg at 25 °C /extrapolated from a higher solid-phase temperature range/ | —    | pubchem_pugview |
| Water solubility    | Soluble                                                                                         | —    | pubchem_pugview |

## IMPORTANT LEGAL DISCLAIMER

This document is an INFORMATIONAL SAFETY PROPERTIES SUMMARY automatically generated from PubChem data (National Institutes of Health, USA). It is NOT an official Safety Data Sheet (SDS) and does not comply with GHS, OSHA HazCom, REACH (EU), or any equivalent national regulation. It must NOT be used as the sole reference document in industrial settings, professional laboratories, or for occupational risk assessment. Always consult the official SDS from the compound supplier and applicable local regulations before handling.

Official SDS sources:

- Sigma-Aldrich (Merck): <https://www.sigmaaldrich.com/search#q=DEXTROSE>
- Fisher Scientific: <https://www.fishersci.com/us/en/catalog/search/sds?query=DEXTROSE>
- PubChem (source data): <https://pubchem.ncbi.nlm.nih.gov/#query=DEXTROSE>
- GESTIS (database): <https://gestis-database.dguv.de/>

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