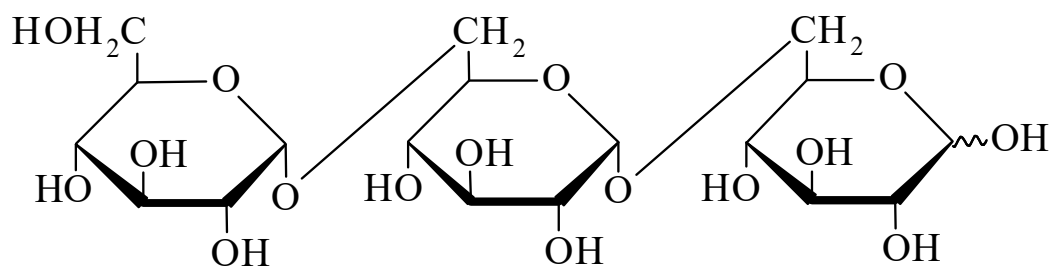




>>Entry Name: Dextrantriose

ENTRY UNDER REVIEW

**Synonym(s):** *O*- $\alpha$ -D-Glucopyranosyl-(1 $\rightarrow$ 6)-*O*- $\alpha$ -D-glucopyranosyl-(1 $\rightarrow$ 6)-D-glucose, 9Cl. 6- $\alpha$ -Isomaltosyl-D-glucose. Isomaltotriose



**CAS Registry Number:** 3371-50-4

**Molecular Formula:** C<sub>18</sub>H<sub>32</sub>O<sub>16</sub>

**Molecular Weight:** 504.441

**Accurate Mass:** 504.16904

**Percentage Composition:** C 42.86%; H 6.39%; O 50.75%

**Biological Source:** Occurs in Saké, honeydew etc. Formed by acid hydrol. of Dextran and by the action of transglucosidase (enzyme of *Aspergillus oryzae*) on Maltose

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +134 (c, 0.5 in H<sub>2</sub>O)

**Sigma:** I0381

**Supelco:** 4-7884

>>Derivative: Undecabenzoyl

**Molecular Formula:** C<sub>95</sub>H<sub>76</sub>O<sub>27</sub>

**Molecular Weight:** 1649.629

**Accurate Mass:** 1648.457405

**Percentage Composition:** C 69.17%; H 4.64%; O 26.19%

**Melting Point:** Mp 226-227°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +131 (CHCl<sub>3</sub>)

**References:**

Pazur, J.H. *et al.*, *J. Biol. Chem.*, 1952, **196**, 265, (*isol*)

Jeans, A. *et al.*, *J.A.C.S.*, 1953, **75**, 5911

Takiura, K. *et al.*, *Chem. Pharm. Bull.*, 1973, **21**, 523, (*synth*)

Friebolin, H. *et al.*, *Makromol. Chem.*, 1976, **177**, 845, (*conformn, cmr*)