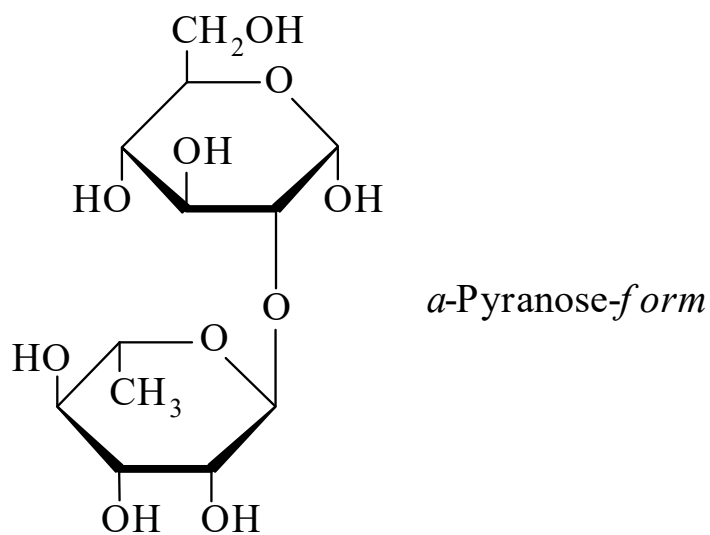




>>Entry Name: 2-*O*- α -L-Rhamnopyranosyl-D-glucose

ENTRY UNDER REVIEW

Synonym(s): 2-*O*-(6-Deoxy- α -L-mannopyranosyl)-D-glucose, 9Cl. **Neohesperidose**. Sophorabiose



CAS Registry Number: 17074-02-1

Molecular Formula: C₁₂H₂₂O₁₀

Molecular Weight: 326.3

Accurate Mass: 326.1213

Percentage Composition: C 44.17%; H 6.80%; O 49.03%

Biological Source: Occurs in plants as disaccharide component of [HBH63-H](#) and other glycosides

Physical Description: Prisms +1H₂O (EtOH aq.)

Melting Point: Mp 191-192°

Optical Rotation: $[\alpha]_D^{22}$ -53.3 (7 min) $\rightarrow$ -3.9 (c, 3.0 in H₂O)

Sigma: N9385

>>Variant: β -Pyranose-form

Molecular Formula: C₁₂H₂₂O₁₀

Molecular Weight: 326.3

Accurate Mass: 326.1213

Percentage Composition: C 44.17%; H 6.80%; O 49.03%

>>Derivative: Hepta-Ac

CAS Registry Number: 19949-47-4

Molecular Formula: C₂₆H₃₆O₁₇

Molecular Weight: 620.56

Accurate Mass: 620.195255

Percentage Composition: C 50.32%; H 5.85%; O 43.83%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 152-153°

Optical Rotation: $[\alpha]_D^{25}$ +3.4 (c, 4.2 in Me₂CO)

References:

Zemplén, G. *et al.*, *Ber.*, 1938, **71**, 2511, (*isol*)

Horowitz, R.M. *et al.*, *Tetrahedron*, 1963, **19**, 773, (*isol, struct*)

Kamiya, S. *et al.*, *Agric. Biol. Chem.*, 1967, **31**, 261, (*synth*)