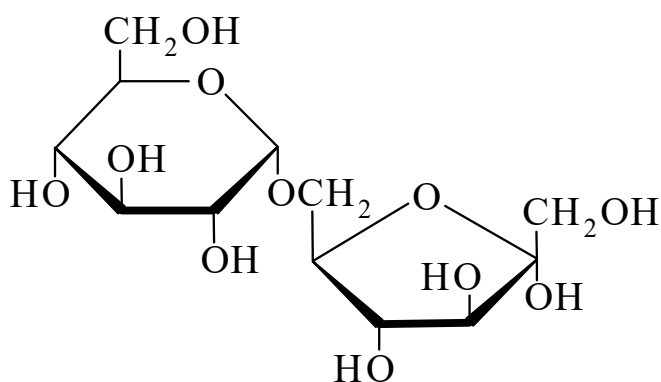




>>Entry Name: 6-*O*- α -D-Glucopyranosyl-D-fructofuranose

Synonym(s): Isomaltulose. Palatinose



CAS Registry Number: 13718-94-0

Molecular Formula: C₁₂H₂₂O₁₁

Molecular Weight: 342.299

Accurate Mass: 342.116215

Percentage Composition: C 42.11%; H 6.48%; O 51.42%

Biological Source: Isol. from *Streptococcus bovis*. Formed by the action of Enterobacteriaceae on sucrose

Use/Importance: Inexpensive bulk-scale carbohydrate

Optical Rotation: $[\alpha]_D +97.2$ (H₂O)

Fluka: 75980

Sigma: P2007

>>Derivative: Phenylosazone

Melting Point: Mp 173-175°

References:

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Dreissig, W. *et al.*, *Acta Cryst. B*, 1973, **29**, 514, (*cryst struct*)
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Jarrell, H.C. *et al.*, *Carbohydr. Res.*, 1979, **76**, 45-47, (*cmr*)
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