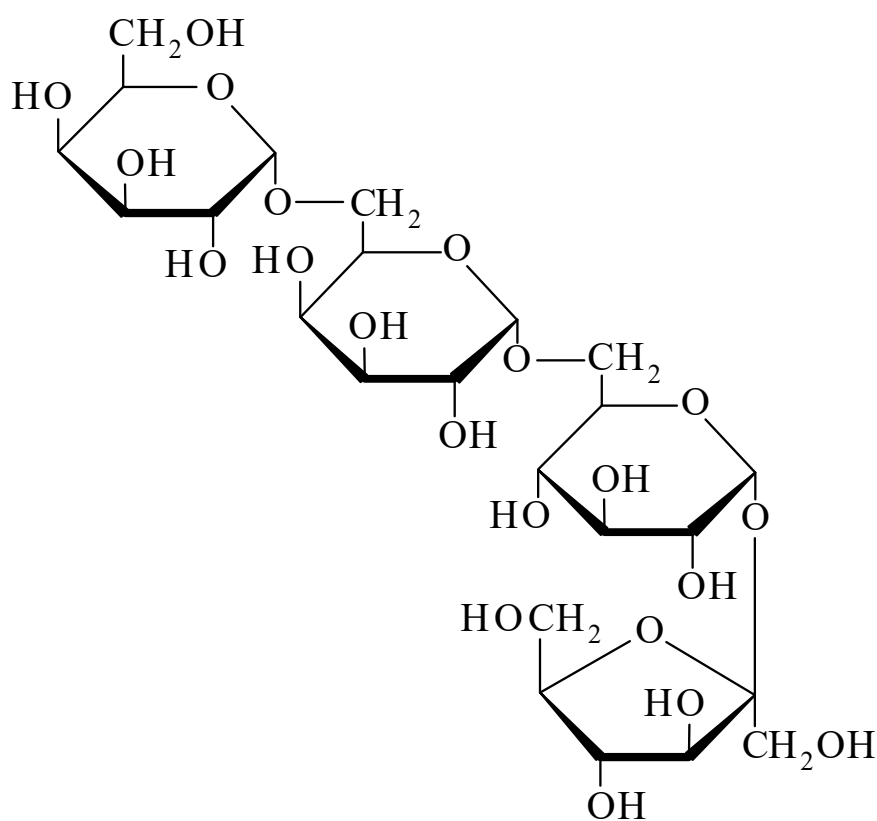




>>Entry Name: Stachyose

ENTRY UNDER REVIEW

Synonym(s): β -D-Fructofuranosyl *O*- α -D-galactopyranosyl-(1 $\rightarrow$ 6)-*O*- α -D-galactopyranosyl-(1 $\rightarrow$ 6)- α -D-glucopyranoside, 9Cl, 8Cl. Manneotetrose. β -Galactan. Cicerose. Lupeose



CAS Registry Number: 470-55-3

Related CAS Registry Numbers(s): 10094-58-3

Molecular Formula: C₂₄H₄₂O₂₁

Molecular Weight: 666.583

Accurate Mass: 666.221865

Percentage Composition: C 43.25%; H 6.35%; O 50.40%

Physical Description: Cryst. + 4 or 5H₂O

Melting Point: Mp 101-105° (sealed tube). Mp 167-170° (anhyd.)

Optical Rotation: $[\alpha]_D^{23} +131.3$ (c, 4.5 in H₂O)

Fluka: 85638

>>Derivative: Tetradeca-Ac

Molecular Formula: C₅₂H₈₀O₃₅

Molecular Weight: 1265.183

Accurate Mass: 1264.448025

Percentage Composition: C 49.37%; H 6.37%; O 44.26%

Melting Point: Mp 95-96°

Optical Rotation: $[\alpha]_D^{20} +120$ (c, 3.8 in EtOH)

>>Derivative: Tetradecakis-4-nitrobenzoyl

Melting Point: Mp 166°

>>Derivative: Tetradeca-Me

Molecular Formula: C₃₈H₅₆O₂₁

Molecular Weight: 848.848

Accurate Mass: 848.331415

Percentage Composition: C 53.77%; H 6.65%; O 39.58%

Physical Description: Syrup

Optical Rotation: $[\alpha]_D^{24} +139.2$ (CHCl₃)

References: