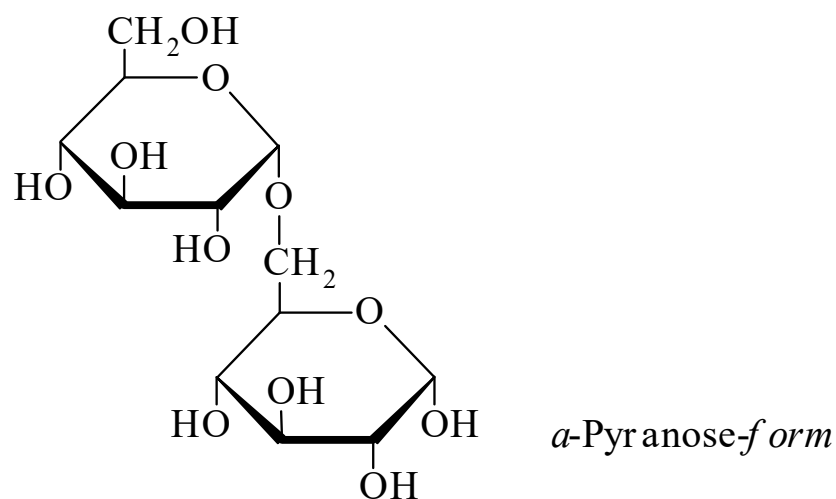




>>Entry Name: 6-*O*- α -D-Glucopyranosyl-D-glucose, 9Cl

ENTRY UNDER REVIEW

Synonym(s): Isomaltose. Brachiose



CAS Registry Number: 499-40-1

Related CAS Registry Numbers(s): 24822-33-1

Molecular Formula: C₁₂H₂₂O₁₁

Molecular Weight: 342.299

Accurate Mass: 342.116215

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

Biological Source: Isolated from partial hydrolysates of amylopectin and dextrans. Prod. by *Bacillus polymyxa* and *Streptomyces* spp.

Use/Importance: Active against *E. coli* only

Melting Point: Mp 120°

Optical Rotation: $[\alpha]_D +120$ (H₂O)

Solubility: BERDY SOL: Sol. H₂O; poorly sol. MeOH, C₆H₆, butanol

UV: [neutral] $\lambda_{\max}$ (H₂O) (Berdy)

Fluka: 58928

Sigma: 17253

Supelco: R47-3895

>>Variant: α -Pyranose-form

Molecular Formula: C₁₂H₂₂O₁₁

Molecular Weight: 342.299

Accurate Mass: 342.116215

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

>>Derivative: Me glycoside

Synonym(s): Methyl α -maltoside

Molecular Formula: C₁₃H₂₄O₁₁

Molecular Weight: 356.326

Accurate Mass: 356.131865

Percentage Composition: C 43.82%; H 6.79%; O 49.39%

Physical Description: Amorph. solid

Optical Rotation: $[\alpha]_D^{20} +107$ (c, 0.18 in EtOH)

>>Variant: β -Pyranose-form

Molecular Formula: C₁₂H₂₂O₁₁

Molecular Weight: 342.299

Accurate Mass: 342.116215

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