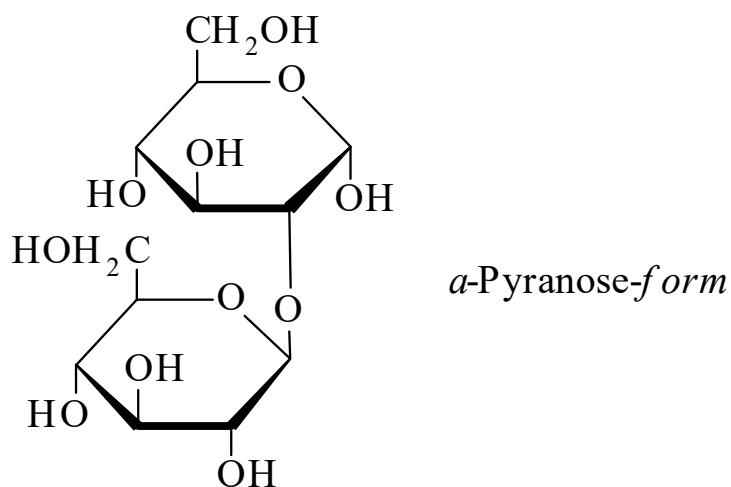




>>Entry Name: 2-*O*-β-D-Glucopyranosyl-D-glucose, 9Cl

Synonym(s): Sophorose



CAS Registry Number: 534-46-3

Molecular Formula: C₁₂H₂₂O₁₁

Molecular Weight: 342.299

Accurate Mass: 342.116215

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

Biological Source: Disaccharide from *Sophora japonica*, obt. by hydrol. of Stevioside or Kaempferol-sophoroside. Also occurs as glycosides in *Torulopsis magnoliae* and prod. by various *Acetobacter* spp.

Physical Description: Needles (MeOH aq.)

Melting Point: Mp 196-198°

Optical Rotation: $[\alpha]_D^{20} +33 \rightarrow +19.1$ (c, 1.2 in H₂O)

>>Variant: α-Pyranose-form

CAS Registry Number: 20880-64-2

Molecular Formula: C₁₂H₂₂O₁₁

Molecular Weight: 342.299

Accurate Mass: 342.116215

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

>>Derivative: Octa-Ac

Synonym(s): Octa-*O*-acetyl-α-sophoropyranose

CAS Registry Number: 38358-39-3

Molecular Formula: C₂₈H₃₈O₁₉

Molecular Weight: 678.597

Accurate Mass: 678.200735

Percentage Composition: C 49.56%; H 5.64%; O 44.80%

Melting Point: Mp 111°

Optical Rotation: $[\alpha]_D^{17} +45$ (CHCl₃)

>>Derivative: Benzyl glycoside

Synonym(s): Benzyl 2-*O*-β-D-glucopyranosyl-α-D-glucopyranoside. Benzyl α-D-sophoropyranoside

Molecular Formula: C₁₉H₂₈O₁₁

Molecular Weight: 432.424

Accurate Mass: 432.163165

Percentage Composition: C 52.77%; H 6.53%; O 40.70%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 214-215°

Optical Rotation: $[\alpha]_D^{25} +90.6$ (c, 1.6 in H₂O)