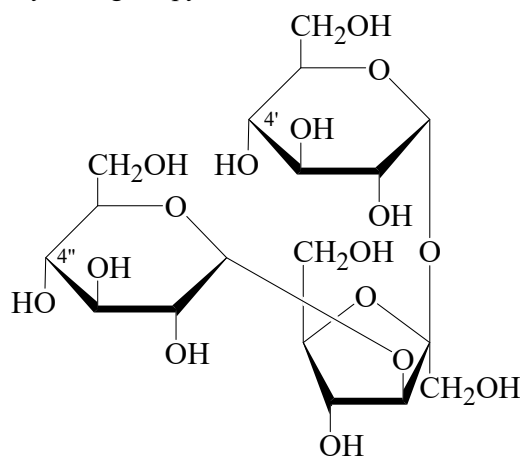




>>Entry Name: Melezitose, 8Cl

ENTRY UNDER REVIEW

Synonym(s): *O*- α -D-Glucopyranosyl-(1 $\rightarrow$ 3)- β -D-fructofuranosyl α -D-glucopyranoside, 9Cl. Melizitose



CAS Registry Number: 597-12-6

Extra CAS Registry Numbers(s): 10030-67-8

Molecular Formula: C₁₈H₃₂O₁₆

Molecular Weight: 504.441

Accurate Mass: 504.16904

Percentage Composition: C 42.86%; H 6.39%; O 50.75%

Biological Source: Constit. of honey and of the sweet exudates of many plants

Physical Description: Dihydrate

Melting Point: Mp 153-154°

Optical Rotation: $[\alpha]_D^{20} +88.2$ (H₂O)

Other Data: Dimorphic

Fluka: 63620

>>Derivative: Undeca-Ac

Molecular Formula: C₄₀H₅₄O₂₇

Molecular Weight: 966.85

Accurate Mass: 966.285255

Percentage Composition: C 49.69%; H 5.63%; O 44.68%

Melting Point: Mp 117°

Optical Rotation: $[\alpha]_D +104$ (c, 1.0 in CHCl₃)

>>Derivative: Undeca-Me

Molecular Formula: C₂₉H₅₄O₁₆

Molecular Weight: 658.736

Accurate Mass: 658.34119

Percentage Composition: C 52.88%; H 8.26%; O 38.86%

Boiling Point: Bp_{0.01} 236°

Optical Rotation: $[\alpha]_D +114$ (MeOH)

>>Derivative: 4',4''-Di-*O*- β -D-glucopyranosyl

Synonym(s): Diglucomelezitose

Molecular Formula: C₃₀H₅₂O₂₆

Molecular Weight: 828.725

Accurate Mass: 828.27469

Percentage Composition: C 43.48%; H 6.32%; O 50.20%

Biological Source: Constit. of the honeydew from *Bemisia argentifolii* feeding on cotton

References: