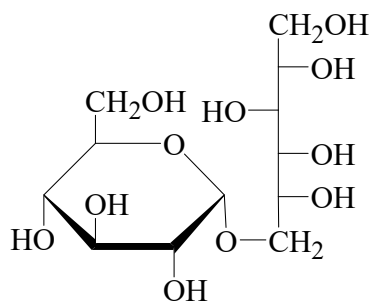




>>Entry Name: 6-*O*- α -D-Glucopyranosyl-D-glucitol, 9Cl, 8Cl

Synonym(s): 6-*O*- α -D-Glucopyranosyl-D-sorbitol. Isomaltitol



CAS Registry Number: 534-73-6

Molecular Formula: C₁₂H₂₄O₁₁

Molecular Weight: 344.315

Accurate Mass: 344.131865

Percentage Composition: C 41.86%; H 7.03%; O 51.11%

Source/Synthesis: Prepd. on a large scale by hydrogenation of isomaltulose as a 1:1 mixture (isomalt) with its C-5 epimer [BVD35-C](#)

Biological Use/Importance: Low nutritive sweetener with half the sweetness of sucrose. Mixts. with the epimer [BVD35-C](#) are known as *Palatinit* or *Isomalt* and used as reduced-calorie sugar substitutes

Physical Description: Cryst. (MeOH) or needles

Melting Point: Mp 165.5-167°

Optical Rotation: $[\alpha]_D^{28} +89$ (c, 4 in H₂O)

Sigma: I9021

>>Derivative: Nona-*O*-Ac

CAS Registry Number: 41897-25-0

Molecular Formula: C₃₀H₄₂O₂₀

Molecular Weight: 722.65

Accurate Mass: 722.22695

Percentage Composition: C 49.86%; H 5.86%; O 44.28%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 114-115°

Optical Rotation: $[\alpha]_D^{29} +70$ (c, 1 in CHCl₃)

References:

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