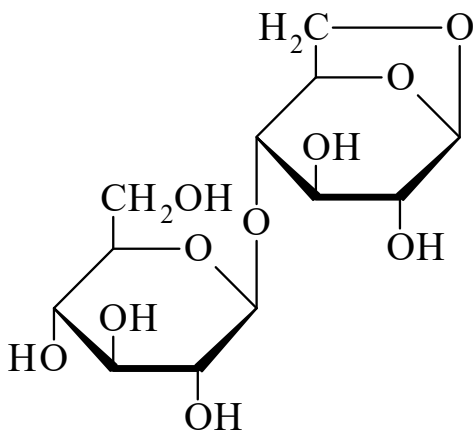




>>Entry Name: 1,6-Anhydrocellobiose

Synonym(s): 1,6-Anhydro-4-O-β-D-glucopyranosyl-β-D-glucopyranose. β-D-Glucopyranosyl(1→4)-1,6-anhydro-β-D-glucopyranose. Cellobiosan



CAS Registry Number: 35405-71-1

Molecular Formula: C₁₂H₂₀O₁₀

Molecular Weight: 324.284

Accurate Mass: 324.10565

Percentage Composition: C 44.45%; H 6.22%; O 49.34%

Physical Description: Hygroscopic solid

Melting Point: Mp 98-102°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -74$ (c, 2.1 in H₂O)

>>Derivative: Hexa-Ac

CAS Registry Number: 38631-27-5

Molecular Formula: C₂₄H₃₂O₁₆

Molecular Weight: 576.507

Accurate Mass: 576.16904

Percentage Composition: C 50.00%; H 5.59%; O 44.40%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 142-143°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -54.2$ (c, 1.25 in CHCl₃)

References:

Montgomery, E.M. *et al.*, *J.A.C.S.*, 1943, **65**, 1848, (*synth*)

Wollwage, P.C. *et al.*, *J. Polym. Sci., Part A*, 1971, **9**, 2877, (*synth*)

Tejima, S. *et al.*, *Chem. Pharm. Bull.*, 1972, **20**, 2036, (*hexa-Ac*)