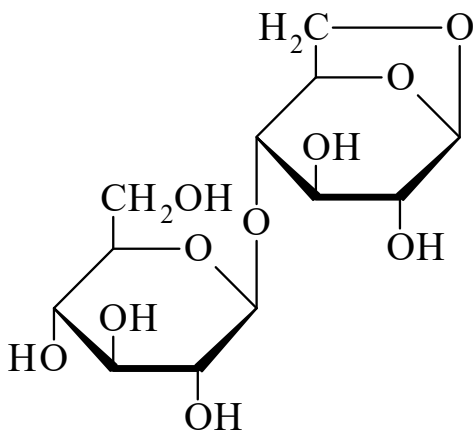




>> **Name: 1,6-Anhydrocellobiose**

**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:** C<sub>12</sub>H<sub>20</sub>O<sub>10</sub>

**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:** [α]<sub>D</sub><sup>25</sup> -74 (c, 2.1 in H<sub>2</sub>O)

>> **Derivative:** Hexa-Ac

**CAS Registry Number:** 38631-27-5

**Molecular Formula:** C<sub>24</sub>H<sub>32</sub>O<sub>16</sub>

**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:** [α]<sub>D</sub><sup>20</sup> -54.2 (c, 1.25 in CHCl<sub>3</sub>)

#### 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*)