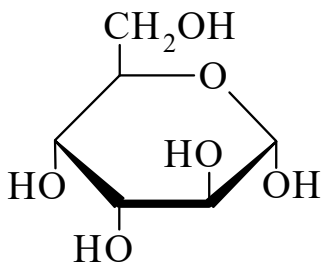
>>**Entry Name: Altrose,** 9CI, 8CI



a-D-Pyranose-*form*

CAS Registry Number: 5987-68-8

Molecular Formula: $C_6H_{12}O_6$
Molecular Weight: 180.157
Accurate Mass: 180.06339
Percentage Composition: C 40.00%; H 6.71%; O 53.28%
General Statement: An aq. soln. at 22° contains 27% α-pyr, 43% β-pyr, 17% α-fur, 13% β-fur and 0.04% aldehyde. Crystallises in β-form

>>**Variant:** D-form

CAS Registry Number: 1990-29-0

Molecular Formula: $C_6H_{12}O_6$
Molecular Weight: 180.157
Accurate Mass: 180.06339
Percentage Composition: C 40.00%; H 6.71%; O 53.28%
Melting Point: Mp 103-105°. Mp 141°
Optical Rotation: $[\alpha]_D^{20}$ –69 → +32.8 (c, 3.5 in H_2O)
Aldrich: 86226-6
Fluka: 6090
Sigma: A6515

>>**Derivative:** Benzylphenylhydrazone

Melting Point: Mp 146-147°
Optical Rotation: $[\alpha]_D$ +22 (c, 0.37 in MeOH)

>>**Derivative:** Di-Et dithioacetal

CAS Registry Number: 4258-05-3

Molecular Formula: $C_{10}H_{22}O_5S_2$
Molecular Weight: 286.413
Accurate Mass: 286.090865
Percentage Composition: C 41.94%; H 7.74%; O 27.93%; S 22.39%
Physical Description: Needles ($MeOH/Et_2O$)
Melting Point: Mp 98-100°
Optical Rotation: $[\alpha]_D$ +11.7 (c, 2.42 in H_2O)

>>**Derivative:** Dibenzyl dithioacetal

Physical Description: Cryst. (EtOAc/petrol)
Melting Point: Mp 119-120°
Optical Rotation: $[\alpha]_D^{24}$ +39.8 (c, 1.75 in Py)

>>**Derivative:** 2,3,4,5,6-Pentabenzyl
Synonym(s): 2,3,4,5,6-Penta-*O*-benzyl-D-altrose

Molecular Formula: $C_{41}H_{42}O_6$
Molecular Weight: 630.779
Accurate Mass: 630.29814
Percentage Composition: C 78.07%; H 6.71%; O 15.22%
Optical Rotation: $[\alpha]_D$ –13.9 (c, 0.83 in $CHCl_3$)

>>**Derivative:** Phenylosazone
see Hexose phenylosazones, NSK36-T