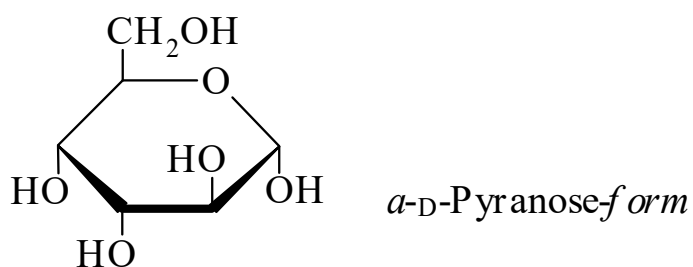




>>Entry Name: Altrose, 9Cl, 8Cl



α -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: $[\alpha]_D^{20} -69 \rightarrow +32.8$ (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/Et₂O)

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: Phenylsazone

see Hexose phenylsazones, [NSK36-T](#)