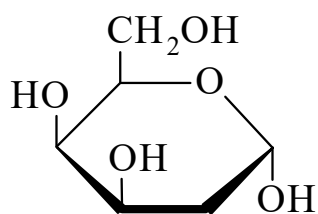




>>Entry Name: 2-Deoxy-*lyxo*-hexose, 9Cl, 8Cl

Synonym(s): 2-Deoxygalactose. 2-Deoxytalose



α -D-Pyranose-*form*

Molecular Formula: C₆H₁₂O₅

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

General Statement: An aq. soln. at 31° contains 40% α -pyr, 44% β -pyr, 8% α -fur, 8% β -fur and 0.03% aldehyde

>>Variant: D-form

CAS Registry Number: 1949-89-9

Molecular Formula: C₆H₁₂O₅

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

General Statement: Isol. as a cryst. β -form

Melting Point: Mp 120-121°

Optical Rotation: $[\alpha]_D^{20} +24 \rightarrow +56$ (c, 2 in H₂O)

Aldrich: D440-7

Fluka: 31050

Sigma: D4160

>>Derivative: 3,4,6-Tri-Ac

Synonym(s): 3,4,6-Tri-*O*-acetyl-D-*lyxo*-hexose

CAS Registry Number: 69503-96-4

Molecular Formula: C₁₂H₁₈O₈

Molecular Weight: 290.269

Accurate Mass: 290.10017

Percentage Composition: C 49.65%; H 6.25%; O 44.10%

Physical Description: Oil

>>Derivative: Di-Et dithioacetal

Molecular Formula: C₁₀H₂₂O₄S₂

Molecular Weight: 270.413

Accurate Mass: 270.09595

Percentage Composition: C 44.42%; H 8.20%; O 23.67%; S 23.72%

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 104-105°

>>Derivative: Dibenzyl dithioacetal

Molecular Formula: C₂₀H₂₆O₄S₂

Molecular Weight: 394.555

Accurate Mass: 394.12725

Percentage Composition: C 60.88%; H 6.64%; O 16.22%; S 16.25%

Physical Description: Plates (MeOH aq.)

Melting Point: Mp 106-107°

Optical Rotation: $[\alpha]_D^{20} -38$ (c, 1.72 in Py)