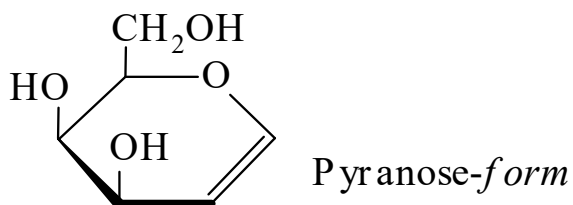




>>Entry Name: Galactal, 8CI

Synonym(s): 1,5-Anhydro-2-deoxy-*lyxo*-hex-1-enitol, 9CI. 1,2-Dideoxy-*lyxo*-1-hexenopyranose. 2,6-Anhydro-5-deoxy-*arabino*-hex-5-enitol. Talal



Molecular Formula: C₆H₁₀O₄

Molecular Weight: 146.143

Accurate Mass: 146.05791

Percentage Composition: C 49.31%; H 6.90%; O 43.79%

>>Variant: D-form

CAS Registry Number: 21193-75-9

Molecular Formula: C₆H₁₀O₄

Molecular Weight: 146.143

Accurate Mass: 146.05791

Percentage Composition: C 49.31%; H 6.90%; O 43.79%

Melting Point: Mp 104° (93-94°)

Optical Rotation: [α]_D -23 (c, 1 in MeOH). [α]_D +5 (c, 1.2 in MeOH). [α]_D²² -6 (c, 2.0 in H₂O)

Aldrich: 46223-3

Fluka: 48225

Sigma: G1511

>>Derivative: Tri-Ac

Synonym(s): 3,4,6-Tri-*O*-acetyl-1,5-anhydro-2-deoxy-D-*lyxo*-hex-1-enitol

CAS Registry Number: 4098-06-0

Molecular Formula: C₁₂H₁₆O₇

Molecular Weight: 272.254

Accurate Mass: 272.089605

Percentage Composition: C 52.94%; H 5.92%; O 41.14%

Melting Point: Mp 30°

Boiling Point: Bp_{0.01} 125-130°

Optical Rotation: [α]_D²³ -15 (c, 3.0 in CHCl₃)

Aldrich: 46222-5

Sigma: T2532

>>Derivative: 3,6-Dibenzoyl

Synonym(s): 1,5-Anhydro-3,6-di-*O*-benzoyl-2-deoxy-D-*lyxo*-hex-1-enitol

Molecular Formula: C₂₀H₁₈O₆

Molecular Weight: 354.359

Accurate Mass: 354.11034

Percentage Composition: C 67.79%; H 5.12%; O 27.09%

Melting Point: Mp 120-121°

Optical Rotation: [α]_D +106 (c, 1 in CHCl₃)

>>Derivative: Tribenzoyl

Synonym(s): 1,5-Anhydro-3,4,6-tri-*O*-benzoyl-2-deoxy-D-*lyxo*-hex-1-enitol

CAS Registry Number: 34948-79-3

Molecular Formula: C₂₇H₂₂O₇

Molecular Weight: 458.467

Accurate Mass: 458.136555

Percentage Composition: C 70.74%; H 4.84%; O 24.43%

Physical Description: Syrup

Optical Rotation: [α]_D²³ -106 (c, 0.8 in CHCl₃)

Aldrich: 46670-0