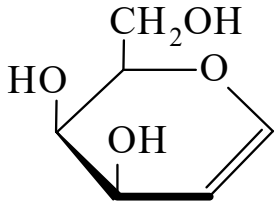
>>**Entry Name: Galactal,** 8CI
**Synonym(s):** 1,5-Anhydro-2-deoxy-*lyxo*-hex-1-enitol, 9CI. 1,2-Dideoxy-*lyxo*-1-hexenopyranose. 2,6-Anhydro-5-deoxy-*arabino*-hex-5-enitol. Talal



Pyranose-*form*

**Molecular Formula:** $C_6H_{10}O_4$
**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:** $C_6H_{10}O_4$
**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:** $[\alpha]_D$ –23 (c, 1 in MeOH). $[\alpha]_D$ +5 (c, 1.2 in MeOH). $[\alpha]_D^{22}$–6 (c, 2.0 in $H_2O$)
**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:** $C_{12}H_{16}O_7$
**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:** $[\alpha]_D^{23}$–15 (c, 3.0 in $CHCl_3$)
**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:** $C_{20}H_{18}O_6$
**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:** $[\alpha]_D$ +106 (c, 1 in $CHCl_3$)

>>**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:** $C_{27}H_{22}O_7$
**Molecular Weight:** 458.467
**Accurate Mass:** 458.136555
**Percentage Composition:** C 70.74%; H 4.84%; O 24.43%
**Physical Description:** Syrup
**Optical Rotation:** $[\alpha]_D^{23}$–106 (c, 0.8 in $CHCl_3$)
**Aldrich:** 46670-0