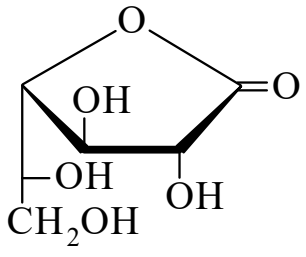
>>**Entry Name: 1,4-Galactonolactone**
Synonym(s): *galacto*-Hexono-1,4-lactone



D-*form*

Molecular Formula: $C_6H_{10}O_6$
Molecular Weight: 178.141
Accurate Mass: 178.04774
Percentage Composition: C 40.45%; H 5.66%; O 53.89%

>>**Variant:** D-form

CAS Registry Number: 2782-07-2

Molecular Formula: $C_6H_{10}O_6$
Molecular Weight: 178.141
Accurate Mass: 178.04774
Percentage Composition: C 40.45%; H 5.66%; O 53.89%
Melting Point: Mp 112°. Mp 135° (hydrate 66°)
Optical Rotation: $[\alpha]_D^{20}$ –73 → –63.7 (H_2O)
Fluka: 48240
Sigma: G0375

>>**Derivative:** 2,3,6-Tri-Ac
Synonym(s): 2,3,6-Tri-*O*-acetyl-D-galactono-1,4-lactone

Molecular Formula: $C_{12}H_{16}O_9$
Molecular Weight: 304.253
Accurate Mass: 304.079435
Percentage Composition: C 47.37%; H 5.30%; O 47.33%
Optical Rotation: $[\alpha]_D^{20}$ –28.7 (c, 1.0 in $CHCl_3$)

>>**Derivative:** 2,6-Dibenzoyl
Synonym(s): 2,6-Di-*O*-benzoyl-D-galactono-1,4-lactone

Molecular Formula: $C_{20}H_{18}O_8$
Molecular Weight: 386.357
Accurate Mass: 386.10017
Percentage Composition: C 62.18%; H 4.70%; O 33.13%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 194-195°
Optical Rotation: $[\alpha]_D$ +3 (c, 0.8 in Me_2CO)

>>**Derivative:** 2,3,5-Tribenzoyl
Synonym(s): 2,3,5-Tri-*O*-benzoyl-D-galactono-1,4-lactone

Molecular Formula: $C_{27}H_{22}O_9$
Molecular Weight: 490.465
Accurate Mass: 490.126385
Percentage Composition: C 66.12%; H 4.52%; O 29.36%
Optical Rotation: $[\alpha]_D^{20}$ +6 (c, 1 in $CHCl_3$)