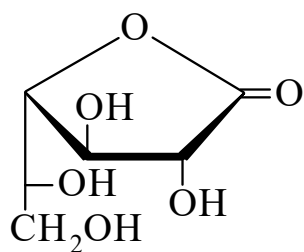




>>Entry Name: 1,4-Galactonolactone

Synonym(s): *galacto*-Hexono-1,4-lactone



D *form*

Molecular Formula: C₆H₁₀O₆

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: C₆H₁₀O₆

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: [α]_D²⁰ -73 → -63.7 (H₂O)

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: C₁₂H₁₆O₉

Molecular Weight: 304.253

Accurate Mass: 304.079435

Percentage Composition: C 47.37%; H 5.30%; O 47.33%

Optical Rotation: [α]_D²⁰ -28.7 (c, 1.0 in CHCl₃)

>>Derivative: 2,6-Dibenzoyl

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

Molecular Formula: C₂₀H₁₈O₈

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: [α]_D +3 (c, 0.8 in Me₂CO)

>>Derivative: 2,3,5-Tribenzoyl

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

Molecular Formula: C₂₇H₂₂O₉

Molecular Weight: 490.465

Accurate Mass: 490.126385

Percentage Composition: C 66.12%; H 4.52%; O 29.36%

Optical Rotation: [α]_D²⁰ +6 (c, 1 in CHCl₃)