



>>>Derivative: 2,4:3,5-Dibenzylidene, Me ester
Synonym(s): Methyl 2,4:3,5-di-*O*-benzylidene-D-ribonate

CAS Registry Number: 20603-37-6

Molecular Formula: C₂₀H₂₀O₆
Molecular Weight: 356.374
Accurate Mass: 356.12599
Percentage Composition: C 67.41%; H 5.66%; O 26.94%
Physical Description: Needles (Me₂CO aq.)
Melting Point: Mp 135.5-137.5°
Optical Rotation: [α]_D -44.4 (c, 2.33 in CHCl₃)

>>>Derivative: 1,4-Lactone
Synonym(s): D-Ribono-1,4-lactone. D-*ribo*-1,4-Pentonolactone

CAS Registry Number: 5336-08-3

Molecular Formula: C₅H₈O₅
Molecular Weight: 148.115
Accurate Mass: 148.037175
Percentage Composition: C 40.55%; H 5.44%; O 54.01%
Melting Point: Mp 80°
Optical Rotation: [α]_D +18.4
Aldrich: 85729-7
Fluka: 83822
Sigma: R4750

>>>Derivative: 1,4-Lactone, tri-Ac
Synonym(s): 2,3,5-Tri-*O*-acetyl-D-ribono-1,4-lactone

CAS Registry Number: 41162-32-7

Molecular Formula: C₁₁H₁₄O₈
Molecular Weight: 274.227
Accurate Mass: 274.06887
Percentage Composition: C 48.18%; H 5.15%; O 46.67%
Physical Description: Cryst. (Et₂O/petrol)
Melting Point: Mp 55-56°
Optical Rotation: [α]_D²⁵ +27 (CHCl₃)

>>>Derivative: 1,4-Lactone, 2,3-*O*-isopropylidene
Synonym(s): 2,3-*O*-Isopropylidene-D-ribono-1,4-lactone

CAS Registry Number: 30725-00-9

Molecular Formula: C₈H₁₂O₅
Molecular Weight: 188.18
Accurate Mass: 188.068475
Percentage Composition: C 51.06%; H 6.43%; O 42.51%
Physical Description: Cryst. (Me₂CO/cyclohexane)
Melting Point: Mp 138-139°
Optical Rotation: [α]_D -57.5 → -16.1 (c, 2.3 in Py)
Aldrich: 37369-9
Fluka: 59485

>>>Derivative: 1,4-Lactone, 2,3-*O*-isopropylidene, 5-Ac
Synonym(s): 5-*O*-Acetyl-2,3-*O*-isopropylidene-D-ribono-1,4-lactone

CAS Registry Number: 32257-17-3

Molecular Formula: C₁₀H₁₄O₆
Molecular Weight: 230.217
Accurate Mass: 230.07904
Percentage Composition: C 52.17%; H 6.13%; O 41.70%
Melting Point: Mp 47.5°
Optical Rotation: [α]_D¹⁹ -59 (c, 1 in CHCl₃)