Molecular Formula: $C_7H_{14}O_6$
Molecular Weight: 194.184
Accurate Mass: 194.07904
Percentage Composition: C 43.30%; H 7.27%; O 49.44%
Physical Description: Cryst. (EtOAc/MeOH)
Melting Point: Mp 128-130°
Optical Rotation: $[\alpha]_D^{23}$ –113 (c, 0.9 in H_2O)

>>**Variant:** L-form

CAS Registry Number: 23567-25-1

Molecular Formula: $C_6H_{12}O_6$
Molecular Weight: 180.157
Accurate Mass: 180.06339
Percentage Composition: C 40.00%; H 6.71%; O 53.28%
Optical Rotation: $[\alpha]_D$ –16.9 (H_2O)
Sigma: T8646

>>**Derivative:** *o*-Nitrophenylhydrazone

Melting Point: Mp 144-146°
Optical Rotation: $[\alpha]_D$ –77 (MeOH)

>>**Derivative:** *N*-Methyl-*N*-phenylhydrazone

Melting Point: Mp 155-156°
Optical Rotation: $[\alpha]_D^{24}$ +8.4 (c, 1.00 in MeOH)

>>**Variant:** α-L-Furanose-form

Molecular Formula: $C_6H_{12}O_6$
Molecular Weight: 180.157
Accurate Mass: 180.06339
Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>**Derivative:** Me glycoside, 2,3-isopropylidene
Synonym(s): Methyl 2,3-*O*-isopropylidene-α-L-talofuranoside

Molecular Formula: $C_{10}H_{18}O_6$
Molecular Weight: 234.249
Accurate Mass: 234.11034
Percentage Composition: C 51.27%; H 7.74%; O 40.98%
Optical Rotation: $[\alpha]_D^{25}$ –44.2 (c, 2.34 in MeOH)

>>**Derivative:** Me glycoside, 2,3-isopropylidene, dibenzoyl
Synonym(s): Methyl 5,6-di-*O*-benzoyl-2,3-*O*-isopropylidene-α-L-talofuranoside

Molecular Formula: $C_{24}H_{26}O_8$
Molecular Weight: 442.465
Accurate Mass: 442.16277
Percentage Composition: C 65.15%; H 5.92%; O 28.93%
Physical Description: Syrup
Optical Rotation: $[\alpha]_D^{23}$ –51 (c, 1.46 in $CHCl_3$)

References: