



Accurate Mass: 454.02734
Percentage Composition: C 31.71%; H 4.88%; O 42.24%; S 21.17%
Physical Description: Syrup
Optical Rotation: $[\alpha]_{\text{D}}^{20} +69.5$ (c, 1.6 in CHCl_3)

>> **Derivative:** 3-Tosyl

Synonym(s): 1,2-*O*-Isopropylidene-3-*O*-tosyl- α -D-allofuranose

CAS Registry Number: 28251-83-4

Molecular Formula: $\text{C}_{16}\text{H}_{22}\text{O}_8\text{S}$
Molecular Weight: 374.411
Accurate Mass: 374.10354
Percentage Composition: C 51.33%; H 5.92%; O 34.19%; S 8.56%
Melting Point: Mp 130°
Optical Rotation: $[\alpha]_{\text{D}}^{24} +56$ (c, 0.3 in Me_2CO)

>> **Derivative:** 3-Tosyl, 5,6-di-Ac

Synonym(s): 5,6-Di-*O*-acetyl-1,2-*O*-isopropylidene-3-*O*-tosyl- α -D-allofuranose

CAS Registry Number: 28251-88-9

Molecular Formula: $\text{C}_{20}\text{H}_{26}\text{O}_{10}\text{S}$
Molecular Weight: 458.485
Accurate Mass: 458.12467
Percentage Composition: C 52.39%; H 5.72%; O 34.90%; S 6.99%
Melting Point: Mp 91°
Optical Rotation: $[\alpha]_{\text{D}}^{22} +89$ (c, 1.0 in CHCl_3)

>> **Derivative:** 6-Tosyl

Synonym(s): 1,2-*O*-Isopropylidene-6-*O*-tosyl- α -D-allofuranose

CAS Registry Number: 24384-93-8

Molecular Formula: $\text{C}_{16}\text{H}_{22}\text{O}_8\text{S}$
Molecular Weight: 374.411
Accurate Mass: 374.10354
Percentage Composition: C 51.33%; H 5.92%; O 34.19%; S 8.56%
Melting Point: Mp 117-119°
Optical Rotation: $[\alpha]_{\text{D}}^{21} +31.2$ (c, 0.81 in CHCl_3)

>> **Derivative:** 3,6-Ditosyl

Synonym(s): 1,2-*O*-Isopropylidene-3,6-di-*O*-tosyl- α -D-allofuranose

CAS Registry Number: 28251-84-5

Molecular Formula: $\text{C}_{23}\text{H}_{28}\text{O}_{10}\text{S}_2$
Molecular Weight: 528.6
Accurate Mass: 528.11239
Percentage Composition: C 52.26%; H 5.34%; O 30.27%; S 12.13%
Melting Point: Mp 117-118°
Optical Rotation: $[\alpha]_{\text{D}}^{21} +70$ (c, 0.7 in EtOH)

>> **Derivative:** 5,6-*O*-Isopropylidene

Synonym(s): 1,2:5,6-Di-*O*-isopropylidene- α -D-allofuranose

CAS Registry Number: 2595-05-3

Molecular Formula: $\text{C}_{12}\text{H}_{20}\text{O}_6$
Molecular Weight: 260.286
Accurate Mass: 260.12599
Percentage Composition: C 55.37%; H 7.74%; O 36.88%
Melting Point: Mp 75-76°. Mp 89-91°
Optical Rotation: $[\alpha]_{\text{D}}^{22} +38$ (CHCl_3)
Aldrich: 29637-6
Fluka: 38404
Sigma: D2910