>>**Derivative:** 3-Me
Synonym(s): 1,2-*O*-Isopropylidene-3-*O*-methyl-α-D-ribofuranose

CAS Registry Number: 35506-61-7

Molecular Formula: $C_9H_{16}O_5$
Molecular Weight: 204.222
Accurate Mass: 204.099775
Percentage Composition: C 52.93%; H 7.90%; O 39.17%
Melting Point: Mp 74-76°
Optical Rotation: $[\alpha]_D$ +100 ($CHCl_3$)

>>**Derivative:** 3-Me, 5-benzoyl
Synonym(s): 5-*O*-Benzoyl-1,2-*O*-isopropylidene-3-*O*-methyl-α-D-ribofuranose

CAS Registry Number: 10300-20-6

Molecular Formula: $C_{16}H_{20}O_6$
Molecular Weight: 308.33
Accurate Mass: 308.12599
Percentage Composition: C 62.33%; H 6.54%; O 31.13%
Melting Point: Mp 74-76°
Optical Rotation: $[\alpha]_D$ +75.2 ($CHCl_3$)

>>**Derivative:** 3-Me, 5-tosyl
Synonym(s): 1,2-*O*-Isopropylidene-3-*O*-methyl-5-*O*-tosyl-α-D-ribofuranose

CAS Registry Number: 35506-62-8

Molecular Formula: $C_{16}H_{22}O_7S$
Molecular Weight: 358.412
Accurate Mass: 358.108625
Percentage Composition: C 53.62%; H 6.19%; O 31.25%; S 8.95%
Melting Point: Mp 108-109°
Optical Rotation: $[\alpha]_D$ +60 ($CHCl_3$)

>>**Derivative:** 5-Benzyl
Synonym(s): 5-*O*-Benzyl-1,2-*O*-isopropylidene-α-D-ribofuranose

CAS Registry Number: 23202-83-7

Molecular Formula: $C_{15}H_{20}O_5$
Molecular Weight: 280.32
Accurate Mass: 280.131075
Percentage Composition: C 64.27%; H 7.19%; O 28.54%
Melting Point: Mp 80-81°
Optical Rotation: $[\alpha]_D$ +42 ($CHCl_3$)

>>**Derivative:** 3,5-Dibenzyl
Synonym(s): 3,5-Di-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranose

CAS Registry Number: 55735-86-9

Molecular Formula: $C_{22}H_{26}O_5$
Molecular Weight: 370.444
Accurate Mass: 370.178025
Percentage Composition: C 71.33%; H 7.07%; O 21.59%
Boiling Point: $Bp_{0.02}$ 178-182°

>>**Derivative:** 5-Trityl
Synonym(s): 1,2-*O*-Isopropylidene-5-*O*-trityl-α-D-ribofuranose

CAS Registry Number: 20590-57-2