Molecular Formula: $C_9H_{18}O_{11}S_3$
Molecular Weight: 398.433
Accurate Mass: 398.001125
Percentage Composition: C 27.13%; H 4.55%; O 44.17%; S 24.14%
Physical Description: Cryst. (EtOAc/EtOH)
Melting Point: Mp 131.5-132°
Optical Rotation: $[\alpha]_D^{21}$+78.4 (c, 1.0 in Me_2CO)

>>**Derivative:** 2-Tosyl
Synonym(s): Methyl 2-*O*-tosyl-α-D-xylopyranoside

CAS Registry Number: 14187-86-1

Molecular Formula: $C_{13}H_{18}O_7S$
Molecular Weight: 318.347
Accurate Mass: 318.077325
Percentage Composition: C 49.05%; H 5.70%; O 35.18%; S 10.07%
Physical Description: Cryst. (H_2O)
Melting Point: Mp 135-136°
Optical Rotation: $[\alpha]_D$ +85.9 (c, 0.55 in $CHCl_3$)

>>**Derivative:** 2-Tosyl, 3,4-di-Ac
Synonym(s): Methyl 3,4-di-*O*-acetyl-2-*O*-tosyl-α-D-xylopyranoside

CAS Registry Number: 14187-87-2

Molecular Formula: $C_{17}H_{22}O_9S$
Molecular Weight: 402.421
Accurate Mass: 402.098455
Percentage Composition: C 50.74%; H 5.51%; O 35.78%; S 7.97%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 143-144°

>>**Variant:** β-D-form

CAS Registry Number: 612-05-5

Molecular Formula: $C_6H_{12}O_5$
Molecular Weight: 164.158
Accurate Mass: 164.068475
Percentage Composition: C 43.90%; H 7.37%; O 48.73%
Melting Point: Mp 156°
Optical Rotation: $[\alpha]_D^{22}$–65.2 (H_2O)
Other Data: Incorrect sign of rotation given in one ref.
Aldrich: 29270-2
Sigma: M5878

>>**Derivative:** 2,3,4-Tri-Ac
Synonym(s): Methyl 2,3,4-tri-*O*-acetyl-β-D-xylopyranoside

CAS Registry Number: 13007-37-9

Molecular Formula: $C_{12}H_{18}O_8$
Molecular Weight: 290.269
Accurate Mass: 290.10017
Percentage Composition: C 49.65%; H 6.25%; O 44.10%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 115°
Optical Rotation: $[\alpha]_D$ –59.6 (c, 1.0 in $CHCl_3$)

>>**Derivative:** 2,3,4-Tribenzoyl
Synonym(s): Methyl 2,3,4-tri-*O*-benzoyl-β-D-xylopyranoside

CAS Registry Number: 6638-76-2