



>>Derivative: Me glycoside

>>Variant:  $\beta$ -D-Furanose-form

**CAS Registry Number:** 37110-85-3

**Molecular Formula:**  $C_5H_{10}O_5$

**Molecular Weight:** 150.131

**Accurate Mass:** 150.052825

**Percentage Composition:** C 40.00%; H 6.71%; O 53.28%

>>Derivative: Tetra-Ac

**Synonym(s):** Tetra-*O*-acetyl- $\beta$ -D-xylofuranose

**CAS Registry Number:** 23094-61-3

**Molecular Formula:**  $C_{13}H_{18}O_9$

**Molecular Weight:** 318.28

**Accurate Mass:** 318.095085

**Percentage Composition:** C 49.06%; H 5.70%; O 45.24%

**Physical Description:** Oil

**Optical Rotation:**  $[\alpha]_D^{20} -16.2$  (c, 0.9 in  $CHCl_3$ )

>>Derivative: 1-Benzoyl, 2,3,5-tri-Ac

**Synonym(s):** 2,3,5-Tri-*O*-acetyl-1-*O*-benzoyl- $\beta$ -D-xylofuranose

**CAS Registry Number:** 55734-49-1

**Molecular Formula:**  $C_{18}H_{20}O_9$

**Molecular Weight:** 380.351

**Accurate Mass:** 380.110735

**Percentage Composition:** C 56.84%; H 5.30%; O 37.86%

**Physical Description:** Syrup

**Optical Rotation:**  $[\alpha]_D^{25} -46.8$  (c, 4.8 in  $CHCl_3$ )

>>Variant: L-form

**CAS Registry Number:** 609-06-3

**Molecular Formula:**  $C_5H_{10}O_5$

**Molecular Weight:** 150.131

**Accurate Mass:** 150.052825

**Percentage Composition:** C 40.00%; H 6.71%; O 53.28%

**Melting Point:** Mp 144°

**Optical Rotation:**  $[\alpha]_D^{20} -79.3 \rightarrow -18.6$  ( $H_2O$ )

**Aldrich:** 85159-0

**Fluka:** 95720

>>Derivative: Phenyllosazone

**Melting Point:** Mp 160-163°

**Optical Rotation:**  $[\alpha]_D +0.1$  (Py/EtOH)

>>Derivative: 2,4-Dinitrophenylhydrazone

**Melting Point:** Mp 165°