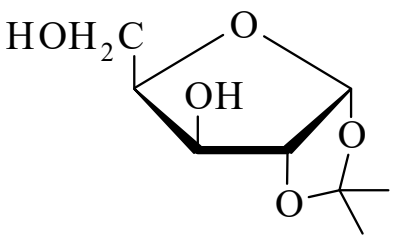
>>**Entry Name: 1,2-*O*-Isopropylidenexylose,** 9CI, 8CI



CAS Registry Number: 20031-21-4

Molecular Formula: $C_8H_{14}O_5$
Molecular Weight: 190.196
Accurate Mass: 190.084125
Percentage Composition: C 50.52%; H 7.42%; O 42.06%

Aldrich: 29636-8
Fluka: 59545
Sigma: I0881

>>**Variant:** α-D-Furanose-form

Molecular Formula: $C_8H_{14}O_5$
Molecular Weight: 190.196
Accurate Mass: 190.084125
Percentage Composition: C 50.52%; H 7.42%; O 42.06%
Physical Description: Syrup or cryst. (EtOAc/petrol)
Melting Point: Mp 42-43°
Boiling Point: $Bp_{0.06}$ 112-114°
Optical Rotation: $[\alpha]_D^{22}$–21.1 (c, 2.0 in H_2O)

>>**Derivative:** 5-Ac
Synonym(s): 5-*O*-Acetyl-1,2-*O*-isopropylidene-α-D-xylofuranose

Molecular Formula: $C_{10}H_{16}O_6$
Molecular Weight: 232.233
Accurate Mass: 232.09469
Percentage Composition: C 51.72%; H 6.94%; O 41.34%
Melting Point: Mp 101°
Optical Rotation: $[\alpha]_D^{22}$+23 (c, 1.0 in $CHCl_3$)

>>**Derivative:** 3,5-Di-Ac
Synonym(s): 3,5-Di-*O*-acetyl-1,2-*O*-isopropylidene-α-D-xylofuranose

CAS Registry Number: 42927-45-7

Molecular Formula: $C_{12}H_{18}O_7$
Molecular Weight: 274.27
Accurate Mass: 274.105255
Percentage Composition: C 52.55%; H 6.61%; O 40.83%
Physical Description: Syrup
Optical Rotation: $[\alpha]_D^{20}$–6.1 ($CHCl_3$)

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

Molecular Formula: $C_{15}H_{18}O_6$
Molecular Weight: 294.304
Accurate Mass: 294.11034
Percentage Composition: C 61.22%; H 6.16%; O 32.62%
Physical Description: Cryst. (Et_2O)
Melting Point: Mp 83-85°

>>**Derivative:** 3,5-Dibenzoyl
Synonym(s): 3,5-Di-*O*-benzoyl-1,2-*O*-isopropylidene-α-D-xylofuranose