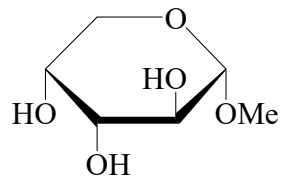
>>**Entry Name: Methyl arabinopyranoside**



α-D-*form*

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%

>>**Variant:** α-D-form

CAS Registry Number: 3867-83-2

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%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 132°
Optical Rotation: $[\alpha]_D$ –17 (H_2O)

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

CAS Registry Number: 32453-58-0

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%
Optical Rotation: $[\alpha]_D$ –19 (7:3 Ac_2O/AcOH)

>>**Derivative:** 3,4-*O*-Isopropylidene
Synonym(s): Methyl 3,4-*O*-isopropylidene-α-D-arabinopyranoside

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%
Physical Description: Cryst. (diisopropyl ether)
Melting Point: Mp 73-74°
Optical Rotation: $[\alpha]_D$ –43 (H_2O). $[\alpha]_D$ –28 (H_2O)

>>**Derivative:** 3,4-*O*-Isopropylidene, 2-mesyl
Synonym(s): Methyl 3,4-*O*-isopropylidene-2-*O*-mesyl-α-D-arabinopyranoside

Molecular Formula: $C_{10}H_{18}O_7S$
Molecular Weight: 282.314
Accurate Mass: 282.077325
Percentage Composition: C 42.54%; H 6.43%; O 39.67%; S 11.36%
Physical Description: Needles (EtOH)
Melting Point: Mp 135° (144-145°)
Optical Rotation: $[\alpha]_D$ –81.5 ($CHCl_3$). $[\alpha]_D$ –33.1 ($CHCl_3$)

>>**Variant:** β-D-form

CAS Registry Number: 5328-63-2