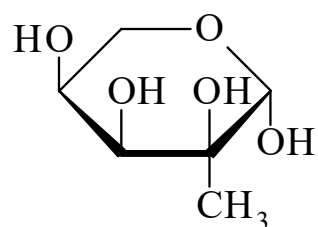




>>Entry Name: 2-C-Methylribose



Molecular Formula: C₆H₁₂O₅

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

>>Variant: D-form

Molecular Formula: C₆H₁₂O₅

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

Physical Description: Syrup

Optical Rotation: $[\alpha]_D^{23} -12$ (c, 0.9 in H₂O)

>>Derivative: Tosylhydrazone

Molecular Formula: C₁₃H₂₀N₂O₆S

Molecular Weight: 332.377

Percentage Composition: C 46.98%; H 6.06%; N 8.43%; O 28.88%; S 9.65%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 169.5-170°

Optical Rotation: $[\alpha]_D^{22} +1.8$ (c, 0.5 in Py)

>>Variant: D-Furanose-form

CAS Registry Number: 23669-84-3

Molecular Formula: C₆H₁₂O₅

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

Physical Description: Cryst. (2-propanol)

Melting Point: Mp 93-95°

Optical Rotation: $[\alpha]_D^{20} -23.6$ (c, 0.62 in H₂O) (equilib.)

>>Derivative: 2,3-Carbonate

Synonym(s): 2-C-Methyl-D-ribofuranose 2,3-*O*-carbonate

CAS Registry Number: 23661-05-4

Molecular Formula: C₇H₁₀O₆

Molecular Weight: 190.152

Accurate Mass: 190.04774

Percentage Composition: C 44.22%; H 5.30%; O 50.48%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 113°

>>Derivative: Tetrabenzoyl

Synonym(s): 1,2,3,5-Tetra-*O*-benzoyl-2-*C*-methyl-β-*D*-ribofuranose

CAS Registry Number: 15397-15-6