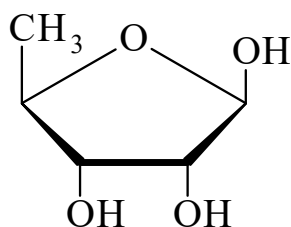




>>Entry Name: 5-Deoxyribose



b-_D-Furanose-*form*

Related CAS Registry Numbers(s): 79083-45-7 79120-55-1

Molecular Formula: C₅H₁₀O₄

Molecular Weight: 134.132

Accurate Mass: 134.05791

Percentage Composition: C 44.77%; H 7.51%; O 47.71%

>>Variant: D-form

CAS Registry Number: 13039-75-3

Molecular Formula: C₅H₁₀O₄

Molecular Weight: 134.132

Accurate Mass: 134.05791

Percentage Composition: C 44.77%; H 7.51%; O 47.71%

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{23} +11$ (c, 4 in H₂O)

>>Derivative: Phenyllosazone

Melting Point: Mp 175-177° (172-174°)

Optical Rotation: $[\alpha]_D -65$ (c, 0.65 in EtOH/Py 3:2)

>>Variant: D-Furanose-form

Molecular Formula: C₅H₁₀O₄

Molecular Weight: 134.132

Accurate Mass: 134.05791

Percentage Composition: C 44.77%; H 7.51%; O 47.71%

>>Derivative: Me glycoside

Synonym(s): Methyl 5-deoxy-D-ribofuranoside

Molecular Formula: C₆H₁₂O₄

Molecular Weight: 148.158

Accurate Mass: 148.07356

Percentage Composition: C 48.64%; H 8.16%; O 43.20%

Physical Description: Low-melting hygroscopic cryst.

Boiling Point: Bp_{0.3} 83-88°

Optical Rotation: $[\alpha]_D^{23} -76$ (c, 2 in EtOH)

Other Data: Anomeric composition not determined

>>Variant: β-D-Furanose-form

Molecular Formula: C₅H₁₀O₄

Molecular Weight: 134.132

Accurate Mass: 134.05791

Percentage Composition: C 44.77%; H 7.51%; O 47.71%

>>Derivative: Tri-Ac

Synonym(s): 1,2,3-Tri-*O*-acetyl-5-deoxy-β-D-ribofuranose

CAS Registry Number: 62211-93-2

Molecular Formula: C₁₁H₁₆O₇

Molecular Weight: 260.243

Accurate Mass: 260.089605

Percentage Composition: C 50.77%; H 6.20%; O 43.04%

Physical Description: Cryst. (diisopropyl ether)

Melting Point: Mp 66-67°

Optical Rotation: $[\alpha]$