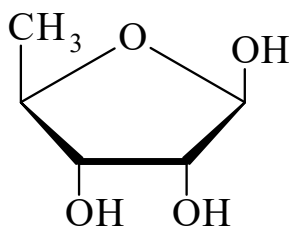
>>**Entry Name: 5-Deoxyribose**



b-D-Furanose-*form*

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

Molecular Formula: $C_5H_{10}O_4$
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: $C_5H_{10}O_4$
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 H_2O)

>>**Derivative:** Phenylosazone

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: $C_5H_{10}O_4$
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: $C_6H_{12}O_4$
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: $C_5H_{10}O_4$
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: $C_{11}H_{16}O_7$
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: [α]