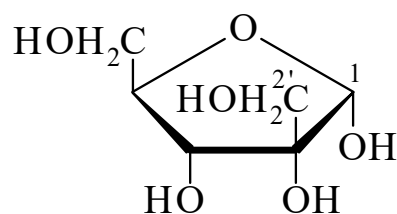




>>Entry Name: 2-C-Hydroxymethylribose

Synonym(s): Hamamelose



α-D-Furanose-form

Molecular Formula: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>Variant: D-form

CAS Registry Number: 4573-78-8

Molecular Formula: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 110-111°

Optical Rotation: $[\alpha]_D^{21} +7.7 \rightarrow -7$ (H₂O)

>>Derivative: 4-Nitrophenylhydrazone

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 161-163°

>>Derivative: 4-Methylbenzenesulfonylhydrazone

Physical Description: Cryst. (MeOH)

Melting Point: Mp 146-147°

Optical Rotation: $[\alpha]_D^{21} +90 \rightarrow +52$ (c, 0.7 in Py)

>>Variant: D-Pyranose-form

Molecular Formula: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

>>Derivative: 2',4-Bis(3,4,5-trihydroxybenzoyl)

Synonym(s): 2',4-Di-O-galloyl-D-hamamelopyranose

Molecular Formula: C₂₀H₂₀O₁₄

Molecular Weight: 484.37

Accurate Mass: 484.08531

Percentage Composition: C 49.59%; H 4.16%; O 46.24%

Biological Source: Constit. of *Hamamelis virginiana* (Hamamelidaceae)

Other Data: Config. of anomeric centre undetermined

>>Variant: β-D-Pyranose-form

Molecular Formula: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

Percentage Composition: C 40.00%; H 6.71%; O 53.28%