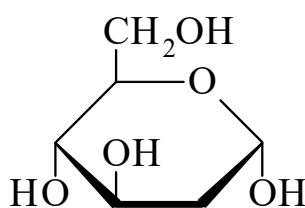




>>Entry Name: 2-Deoxy-*arabino*-hexose, 9Cl, 8Cl

Synonym(s): 2-Deoxyglucose. 2-Deoxymannose



α-D-Pyranose-*form*

Related CAS Registry Numbers(s): 33068-19-8 55644-83-2

Molecular Formula: C₆H₁₂O₅

Molecular Weight: 164.158

Accurate Mass: 164.068475

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

General Statement: An aq. soln. at 44° contains 47.5% α-pyr, 52.5% β-pyr and 0.008% aldehyde

>>Variant: D-form

CAS Registry Number: 154-17-6

Molecular Formula: C₆H₁₂O₅

Molecular Weight: 164.158

Accurate Mass: 164.068475

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

Biological Source: Isol. from ferns *Pteris ensiformis*, *Pteris formosana*, *Pteris inaequalis* and *Neurocallis praestantissima*

Biological Use/Importance: Exp. antiviral agent

Hazard & Toxicity: Exp. reprod. and teratogenic effects (large dose). LD₅₀ (rat, scu) 250mg/kg

Aldrich: D460-1

Fluka: 31060

Sigma: D8375

>>Derivative: 3,4,6-Tri-Ac

Synonym(s): 3,4,6-Tri-*O*-acetyl-2-deoxy-D-*arabino*-hexose

CAS Registry Number: 69503-94-2

Molecular Formula: C₁₂H₁₈O₈

Molecular Weight: 290.269

Accurate Mass: 290.10017

Percentage Composition: C 49.65%; H 6.25%; O 44.10%

Physical Description: Oil

>>Derivative: Di-Me acetal

Molecular Formula: C₈H₁₈O₆

Molecular Weight: 210.227

Accurate Mass: 210.11034

Percentage Composition: C 45.71%; H 8.63%; O 45.66%

Physical Description: Cryst. (MeOH/Et₂O)

Melting Point: Mp 110-112°

Optical Rotation: [α]_D¹⁸+19.7 (c, 1.22 in MeOH)

>>Derivative: Di-Me acetal, 3,4,5,6-tetra-Ac

Molecular Formula: C₁₆H₂₆O₁₀

Molecular Weight: 378.375

Accurate Mass: 378.1526

Percentage Composition: C 50.79%; H 6.93%; O 42.28%

Physical Description: Cryst. (Et₂O/pentane)

Melting Point: Mp 56-57°

Optical Rotation: [α]_D¹⁸+34.7 (c, 1.41 in MeOH)