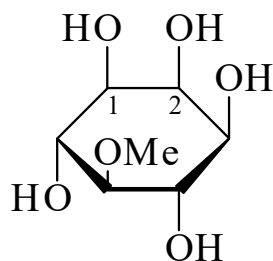




>>Entry Name: Sequoyitol

Synonym(s): 5-*O*-Methyl-*myo*-inositol



CAS Registry Number: 523-92-2

Molecular Formula: C₇H₁₄O₆

Molecular Weight: 194.184

Accurate Mass: 194.07904

Percentage Composition: C 43.30%; H 7.27%; O 49.44%

Biological Source: Occurs in all gymnosperms and two families of dicotyledons. Also isol. from ferns *Nephrolepsis auriculata* and *Nephrolepsis biserrata*

Melting Point: Mp 243°

Other Data: Opt. inactive (*meso*-). The sample from *N. auriculata* was reported to have $[\alpha]_D + 40^\circ$, which is impossible

>>Derivative: 1,2-*O*-Isopropylidene

Molecular Formula: C₁₀H₁₈O₆

Molecular Weight: 234.249

Accurate Mass: 234.11034

Percentage Composition: C 51.27%; H 7.74%; O 40.98%

Melting Point: Mp 115°

>>Derivative: 1,2-*O*-Isopropylidene, 3,4,6-tri-Ac

Molecular Formula: C₁₆H₂₄O₉

Molecular Weight: 360.36

Accurate Mass: 360.142035

Percentage Composition: C 53.33%; H 6.71%; O 39.96%

Melting Point: Mp 107-108°

>>Derivative: Penta-Ac

Synonym(s): 1,2,3,4,6-Penta-*O*-acetyl-5-*O*-methyl-*myo*-inositol

CAS Registry Number: 20254-33-5

Molecular Formula: C₁₇H₂₄O₁₁

Molecular Weight: 404.37

Accurate Mass: 404.131865

Percentage Composition: C 50.50%; H 5.98%; O 43.52%

Melting Point: Mp 203-204°

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