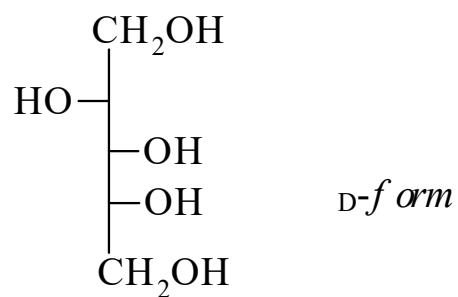




>>Entry Name: Arabinitol, 9CI
Synonym(s): Lyxitol, 9CI. Arabitol, 8CI



CAS Registry Number: 2152-56-9

Molecular Formula: C₅H₁₂O₅
Molecular Weight: 152.147
Accurate Mass: 152.068475
Percentage Composition: C 39.47%; H 7.95%; O 52.58%

>>Variant: D-form

CAS Registry Number: 488-82-4

Molecular Formula: C₅H₁₂O₅
Molecular Weight: 152.147
Accurate Mass: 152.068475
Percentage Composition: C 39.47%; H 7.95%; O 52.58%
Biological Source: Found in lichens and fungi
Melting Point: Mp 103°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +7.7$ (borax)
Aldrich: 11999-7
Fluka: 10880
Sigma: A3381
Supelco: 4-6919

>>Derivative: Penta-Ac
Synonym(s): 1,2,3,4,5-Penta-O-acetyl-D-arabinitol

CAS Registry Number: 5401-55-8

Molecular Formula: C₁₅H₂₂O₁₀
Molecular Weight: 362.333
Accurate Mass: 362.1213
Percentage Composition: C 49.72%; H 6.12%; O 44.16%
Melting Point: Mp 74-75°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +37.2$ (CHCl₃)

>>Derivative: 1,5-Dibenzoyl
Synonym(s): 1,5-Di-O-benzoyl-D-arabinitol

Molecular Formula: C₁₉H₂₀O₇
Molecular Weight: 360.363
Accurate Mass: 360.120905
Percentage Composition: C 63.33%; H 5.59%; O 31.08%
Physical Description: Prisms (EtOH)
Melting Point: Mp 131-132°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +8.4$ (c, 0.81 in Py)

>>Derivative: 1,3:2,4-Di-O-methylene
Synonym(s): 1,3:2,4-Di-O-methylene-D-arabinitol

Molecular Formula: C₇H₁₂O₅
Molecular Weight: 176.169
Accurate Mass: 176.068475
Percentage Composition: C 47.73%; H 6.87%; O 45.41%
Melting Point: Mp 124-125°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +32.4$