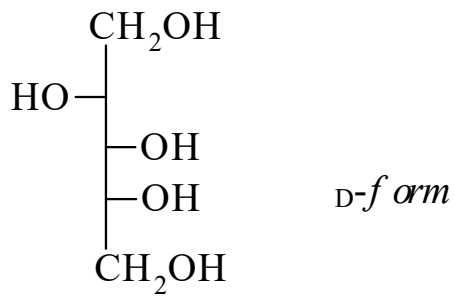
>>**Entry Name: Arabinitol,** 9CI
Synonym(s): Lyxitol, 9CI. Arabitol, 8CI



D-*form*

CAS Registry Number: 2152-56-9

Molecular Formula: $C_5H_{12}O_5$
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: $C_5H_{12}O_5$
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: $[\alpha]_D^{20}$+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: $C_{15}H_{22}O_{10}$
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: $[\alpha]_D^{20}$+37.2 ($CHCl_3$)

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

Molecular Formula: $C_{19}H_{20}O_7$
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: $[\alpha]_D^{20}$+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: $C_7H_{12}O_5$
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: $[\alpha]_D^{20}$+32.4