



Percentage Composition: C 58.32%; H 8.39%; O 33.29%

Physical Description: Needles

Melting Point: Mp 96-98°

Optical Rotation: $[\alpha]_D^{22} +65.8$ (c, 0.64 in MeOH)

>>**Derivative:** 3,4-Di-Me

Synonym(s): 3,4-Di-*O*-methyl-D-*chiro*-inositol

CAS Registry Number: 40617-59-2

Molecular Formula: C₈H₁₆O₆

Molecular Weight: 208.211

Accurate Mass: 208.09469

Percentage Composition: C 46.15%; H 7.75%; O 46.11%

Melting Point: Mp 191-193°

Optical Rotation: $[\alpha]_D^{20} +73$ (c, 2.0 in H₂O)

>>**Variant:** L-form

Synonym(s): *L*-Inositol. Laevoinositol. Levoinositol

CAS Registry Number: 551-72-4

Molecular Formula: C₆H₁₂O₆

Molecular Weight: 180.157

Accurate Mass: 180.06339

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

Biological Source: Widely distributed in higher plants predominantly as its monomethyl ether

Melting Point: Mp 246°

Optical Rotation: $[\alpha]_D -65$ (H₂O)

Aldrich: 46805-3

>>**Derivative:** 1,2,3,5-Tetra-*O*-angeloyl

CAS Registry Number: 82668-02-8

Molecular Formula: C₂₆H₃₆O₁₀

Molecular Weight: 508.564

Accurate Mass: 508.23085

Percentage Composition: C 61.41%; H 7.13%; O 31.46%

Biological Source: Constit. of *Inula cappa*

Physical Description: Gum

Optical Rotation: $[\alpha]_D^{24} +4.4$ (c, 1 in CHCl₃)

>>**Derivative:** 1,2,4,5-Tetra-*O*-angeloyl

CAS Registry Number: 82668-03-9

Molecular Formula: C₂₆H₃₆O₁₀

Molecular Weight: 508.564

Accurate Mass: 508.23085

Percentage Composition: C 61.41%; H 7.13%; O 31.46%

Biological Source: Constit. of *Inula cappa*

>>**Derivative:** 1,5-Bis(4-hydroxyphenylacetyl)

Synonym(s): 1,5-Bis(4-hydroxyphenylacetyl)-*L-chiro*-inositol

CAS Registry Number: 245043-95-2

Molecular Formula: C₂₂H₂₄O₁₀

Molecular Weight: 448.426

Accurate Mass: 448.13695

Percentage Composition: C 58.93%; H 5.39%; O 35.68%

Biological Source: Constit. of *Taraxacum linearisquameum*

Physical Description: Cryst.

Melting Point: Mp 190-193 dec.°

Optical Rotation: $[\alpha]_D^{20} -20$ (c, 0.13 in H₂O)