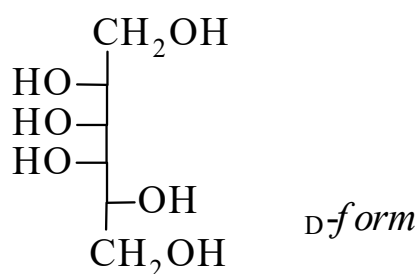




>>Entry Name: Talitol, 9Cl, 8Cl

Synonym(s): Altritol, 9Cl, 8Cl. *talo*-Hexitol. *altro*-Hexitol



CAS Registry Number: 5552-13-6

Related CAS Registry Numbers(s): 45007-61-2

Molecular Formula: C₆H₁₄O₆

Molecular Weight: 182.173

Accurate Mass: 182.07904

Percentage Composition: C 39.56%; H 7.75%; O 52.70%

>>Variant: D-form

CAS Registry Number: 643-03-8

Molecular Formula: C₆H₁₄O₆

Molecular Weight: 182.173

Accurate Mass: 182.07904

Percentage Composition: C 39.56%; H 7.75%; O 52.70%

Biological Source: Isol. from various brown algae incl. *Himanthalia elongata* and *Notheia anomala*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 88°

Optical Rotation: $[\alpha]_D +3.2$ (c, 1.8 in H₂O)

>>Derivative: Hexa-Ac

Synonym(s): 1,2,3,4,5,6-Hexa-*O*-acetyl-D-talitol

Molecular Formula: C₁₈H₂₆O₁₂

Molecular Weight: 434.396

Accurate Mass: 434.14243

Percentage Composition: C 49.77%; H 6.03%; O 44.20%

Melting Point: Mp 81-83°

Optical Rotation: $[\alpha]_D^{25} -0.6$ (c, 16 in CHCl₃)

>>Derivative: 2,4-*O*-Methylene

Synonym(s): 2,4-*O*-Methylene-D-talitol

Molecular Formula: C₇H₁₄O₆

Molecular Weight: 194.184

Accurate Mass: 194.07904

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

Melting Point: Mp 144-145°

Optical Rotation: $[\alpha]_D^{20} -4.2$ (c, 1.2 in H₂O)

>>Derivative: 2,4-*O*-Methylene, tetra-Ac

Synonym(s): 1,3,5,6-Tetra-*O*-acetyl-2,4-*O*-methylene-D-talitol

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 67-68°

Optical Rotation: $[\alpha]_D^{20} +37.8$ (c, 0.94 in CHCl₃)