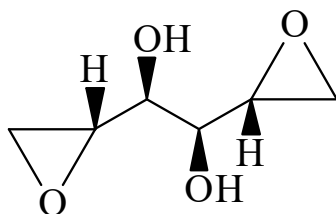




>>Entry Name: 1,2:5,6-Diepoxy-3,4-hexanediol

Synonym(s): 1,2-Dioxiranyl-1,2-ethanediol. 1,2:5,6-Dianhydrohexitol



(2*S*,3*S*,4*S*,5*S*)-form

Molecular Formula: C₆H₁₀O₄

Molecular Weight: 146.143

Accurate Mass: 146.05791

Percentage Composition: C 49.31%; H 6.90%; O 43.79%

>>Variant: (2*S*,3*S*,4*S*,5*S*)-form

Synonym(s): 1,2:5,6-Dianhydro-D-mannitol

CAS Registry Number: 19895-66-0

Molecular Formula: C₆H₁₀O₄

Molecular Weight: 146.143

Accurate Mass: 146.05791

Percentage Composition: C 49.31%; H 6.90%; O 43.79%

Use/Importance: Antineoplastic agent

Physical Description: Needles

Melting Point: Mp 64-66°

Optical Rotation: [α]_D²⁵+40 (c, 1.25 in H₂O)

>>Variant: (2*R*,3*S*,4*S*,5*R*)-form

Synonym(s): 1,2:5,6-Dianhydro-L-iditol

CAS Registry Number: 132957-76-7

Molecular Formula: C₆H₁₀O₄

Molecular Weight: 146.143

Accurate Mass: 146.05791

Percentage Composition: C 49.31%; H 6.90%; O 43.79%

Other Data: No phys. props. reported

>>Variant: (2*RS*,3*SR*,4*RS*,5*SR*)-form

Synonym(s): 1,2:5,6-Dianhydrogalactitol

CAS Registry Number: 23261-20-3

Molecular Formula: C₆H₁₀O₄

Molecular Weight: 146.143

Accurate Mass: 146.05791

Percentage Composition: C 49.31%; H 6.90%; O 43.79%

Use/Importance: Antineoplastic agent

Physical Description: Plates

Melting Point: Mp 96.5-98.5°

Optical Rotation: [α]_D²⁵+2 (c, 1.25 in H₂O)

Other Data: Dimorphic. A *meso*-diastereoisomer

>>Derivative: Di-Ac

Synonym(s): 3,4-Di-*O*-acetyl-1,2:5,6-dianhydrogalactitol

CAS Registry Number: 57230-48-5

Molecular Formula: C₁₀H₁₄O₆

Molecular Weight: 230.217

Accurate Mass: 230.07904

Percentage Composition: C 52.17%; H 6.13%; O 41.70%

Physical Description: Needles (MeOH)

Melting Point: Mp 91°

References: