



CAS Registry Number: 125126-05-8

Molecular Formula: C₁₉H₂₈O₈S

Molecular Weight: 416.491

Accurate Mass: 416.15049

Percentage Composition: C 54.79%; H 6.78%; O 30.73%; S 7.70%

Physical Description: Cryst. (petrol/diisopropyl ether)

Melting Point: Mp 97.5-105°

Optical Rotation: [α]_D²⁰ +29 (c, 1 in CHCl₃)

>> **Derivative:** 1,2:3,4:5,6-Tri-*O*-isopropylidene

Synonym(s): 1,2:3,4:5,6-Tri-*O*-isopropylidene-D-glucitol

CAS Registry Number: 33377-66-1

Molecular Formula: C₁₅H₂₆O₆

Molecular Weight: 302.367

Accurate Mass: 302.17294

Percentage Composition: C 59.58%; H 8.67%; O 31.75%

Physical Description: Needles (Me₂CO aq./NH₃)

Melting Point: Mp 48° (45-46°)

Optical Rotation: [α]_D +14.3 (EtOH)

>> **Derivative:** 2,4-Benzylidene(S-)

Synonym(s): 2,4-*O*-Benzylidene-D-glucitol

CAS Registry Number: 61340-09-8

Molecular Formula: C₁₃H₁₈O₆

Molecular Weight: 270.282

Accurate Mass: 270.11034

Percentage Composition: C 57.77%; H 6.71%; O 35.52%

Physical Description: Needles (EtOH)

Melting Point: Mp 176-178°

Optical Rotation: [α]_D -1.1 (c, 1.0 in H₂O)

>> **Derivative:** 4,6-Benzylidene

Synonym(s): 4,6-*O*-Benzylidene-D-glucitol. 1,3-*O*-Benzylidene-L-gulitol

CAS Registry Number: 95341-76-7

Molecular Formula: C₁₃H₁₈O₆

Molecular Weight: 270.282

Accurate Mass: 270.11034

Percentage Composition: C 57.77%; H 6.71%; O 35.52%

Melting Point: Mp 132-133°

Optical Rotation: [α]_D -40.7 (H₂O)

>> **Derivative:** 2,4:3,5-Dibenzylidene

Synonym(s): 2,4:3,5-Di-*O*-benzylidene-D-glucitol

CAS Registry Number: 13265-76-4

Molecular Formula: C₂₀H₂₂O₆

Molecular Weight: 358.39

Accurate Mass: 358.14164

Percentage Composition: C 67.03%; H 6.19%; O 26.79%

Melting Point: Mp 208°

Optical Rotation: [α]_D -14.8 (Me₂CO)