



Accurate Mass: 270.09595
Percentage Composition: C 44.42%; H 8.20%; O 23.67%; S 23.72%
Physical Description: Cryst. (MeOH)
Melting Point: Mp 135°
Optical Rotation: $[\alpha]_{\text{D}}^{18} +13.1$ (c, 1.6 in MeOH) (c, 1 in MeOH)

>> **Derivative:** Di-Et dithioacetal, 3,4,5,6-tetra-Ac

CAS Registry Number: 16885-34-0

Molecular Formula: $\text{C}_{18}\text{H}_{30}\text{O}_8\text{S}_2$
Molecular Weight: 438.562
Accurate Mass: 438.13821
Percentage Composition: C 49.30%; H 6.89%; O 29.19%; S 14.62%
Physical Description: Cryst. (Et₂O/pentane)
Melting Point: Mp 76-77°
Optical Rotation: $[\alpha]_{\text{D}}^{19} +28.6$ (c, 1.64 in MeOH) (c, 0.91 in CHCl₃)

>> **Derivative:** Dibenzyl dithioacetal

Molecular Formula: $\text{C}_{20}\text{H}_{26}\text{O}_4\text{S}_2$
Molecular Weight: 394.555
Accurate Mass: 394.12725
Percentage Composition: C 60.88%; H 6.64%; O 16.22%; S 16.25%
Physical Description: Needles (EtOH)
Melting Point: Mp 154°
Optical Rotation: $[\alpha]_{\text{D}}^{19} -40$ (c, 0.6 in EtOH)

>> **Derivative:** Dibenzyl dithioacetal, 3,4,5,6-tetra-Ac

Molecular Formula: $\text{C}_{28}\text{H}_{34}\text{O}_8\text{S}_2$
Molecular Weight: 562.704
Accurate Mass: 562.16951
Percentage Composition: C 59.77%; H 6.09%; O 22.75%; S 11.40%
Physical Description: Needles (EtOH)
Melting Point: Mp 63°
Optical Rotation: $[\alpha]_{\text{D}}^{17} +18.2$ (c, 0.77 in MeOH)

>> **Derivative:** 3-Me

Synonym(s): 2-Deoxy-3-*O*-methyl-D-*arabino*-hexose

CAS Registry Number: 39036-70-9

Molecular Formula: $\text{C}_7\text{H}_{14}\text{O}_5$
Molecular Weight: 178.185
Accurate Mass: 178.084125
Percentage Composition: C 47.19%; H 7.92%; O 44.90%
Biological Source: Isol. from *Pteris inaequalis* var. *aequata*
Physical Description: Syrup; cryst. (Me₂CO/Et₂O)
Melting Point: Mp 110-112°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +14.7$ (c, 1.56 in H₂O)

>> **Derivative:** 3,4,6-Tri-*O*-benzyl

Synonym(s): 3,4,6-Tri-*O*-benzyl-2-deoxy-D-*arabino*-hexose

CAS Registry Number: 132732-60-6

Molecular Formula: $\text{C}_{27}\text{H}_{30}\text{O}_5$
Molecular Weight: 434.531
Accurate Mass: 434.209325
Percentage Composition: C 74.63%; H 6.96%; O 18.41%
Physical Description: Oil