



>>Derivative: 6-Phosphate

>>Derivative: Di-Me dithioacetal

CAS Registry Number: 16732-26-6

Molecular Formula: $C_8H_{18}O_5S_2$

Molecular Weight: 258.359

Accurate Mass: 258.059565

Percentage Composition: C 37.19%; H 7.02%; O 30.96%; S 24.82%

Melting Point: Mp 161°

Optical Rotation: $[\alpha]_D^{24} -20.8$ (1M NaOH)

>>Derivative: Di-Et dithioacetal

>>Derivative: Dibenzyl dithioacetal

CAS Registry Number: 6936-67-0

Molecular Formula: $C_{20}H_{26}O_5S_2$

Molecular Weight: 410.554

Accurate Mass: 410.122165

Percentage Composition: C 58.51%; H 6.38%; O 19.49%; S 15.62%

Melting Point: Mp 139°

Optical Rotation: $[\alpha]_D^{15} -98.4$ (Py)

>>Derivative: 2,3,4,5,6-Penta-Ac

Synonym(s): 2,3,4,5,6-Penta-*O*-acetyl-D-glucose. FEMA 2524

CAS Registry Number: 3891-59-6

Molecular Formula: $C_{16}H_{22}O_{11}$

Molecular Weight: 390.343

Accurate Mass: 390.116215

Percentage Composition: C 49.23%; H 5.68%; O 45.09%

Physical Description: Bitter flavour

Melting Point: Mp 114° (α -anomer). Mp 135° (β -anomer)

Optical Rotation: $[\alpha]_D^{20} +102$ (c, 1 in $CHCl_3$) (α -anomer). $[\alpha]_D^{20} +4.4$ (c, 1 in $CHCl_3$) (β -anomer)

>>Derivative: Penta-Ac, oxime

Molecular Formula: $C_{16}H_{23}NO_{11}$

Molecular Weight: 405.358

Accurate Mass: 405.127114

Percentage Composition: C 47.41%; H 5.72%; N 3.46%; O 43.42%

Melting Point: Mp 99°

Optical Rotation: $[\alpha]_D^{24} +57.2$ ($CHCl_3$)

>>Derivative: Penta-Ac, di-Me dithioacetal

CAS Registry Number: 74281-92-8

Molecular Formula: $C_{18}H_{28}O_{10}S_2$

Molecular Weight: 468.545

Accurate Mass: 468.11239

Percentage Composition: C 46.14%; H 6.02%; O 34.15%; S 13.69%

Melting Point: Mp 83°

Optical Rotation: $[\alpha]_D^{20} +38.7$ ($C_2H_2Cl_4$)