>>**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 ($C_2H_2Cl_4$)