



>>Derivative: Ph glycoside

>>Variant: β -D-Pyranose-form

CAS Registry Number: 492-61-5

Extra CAS Registry Numbers(s): 28905-12-6 31258-47-6

Molecular Formula: $C_6H_{12}O_6$

Molecular Weight: 180.157

Accurate Mass: 180.06339

Percentage Composition: C 40.00%; H 6.71%; O 53.28%

Physical Description: Cryst. (hot EtOH aq., above 115°, Py at 0° or hot AcOH aq.)

Melting Point: Mp 148-150° (anhyd.)

Optical Rotation: $[\alpha]_D^{20} +17.5 \rightarrow +52.5$ (c, 10 in H_2O)

Sigma: G5250

>>Derivative: 1,2,3,4-Tetra-Ac

Synonym(s): 1,2,3,4-Tetra-*O*-acetyl- β -D-glucopyranose

CAS Registry Number: 13100-46-4

Molecular Formula: $C_{14}H_{20}O_{10}$

Molecular Weight: 348.306

Accurate Mass: 348.10565

Percentage Composition: C 48.28%; H 5.79%; O 45.93%

Physical Description: Cryst. (Et_2O)

Melting Point: Mp 128-129°

Optical Rotation: $[\alpha]_D^{16} +9.6$ (c, 2 in $CHCl_3$)

>>Derivative: 1,2,3,6-Tetra-Ac

Synonym(s): 1,2,3,6-Tetra-*O*-acetyl- β -D-glucopyranose

CAS Registry Number: 27086-15-3

Molecular Formula: $C_{14}H_{20}O_{10}$

Molecular Weight: 348.306

Accurate Mass: 348.10565

Percentage Composition: C 48.28%; H 5.79%; O 45.93%

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 131-133° (127-127.5°)

Optical Rotation: $[\alpha]_D^{21} -33.5$ (c, 2 in $CHCl_3$)

>>Derivative: 1,2,4,6-Tetra-Ac

Synonym(s): 1,2,4,6-Tetra-*O*-acetyl- β -D-glucopyranose

CAS Registry Number: 27086-14-2

Molecular Formula: $C_{14}H_{20}O_{10}$

Molecular Weight: 348.306

Accurate Mass: 348.10565

Percentage Composition: C 48.28%; H 5.79%; O 45.93%

Physical Description: Cryst. (CH_2Cl_2/Et_2O)

Melting Point: Mp 126-127°

Optical Rotation: $[\alpha]_D^{16} -13$ (c, 2 in $CHCl_3$)