Optical Rotation: $[\alpha]_D^{25}$+115.1 (c, 1.03 H_2O)

>>**Derivative:** Ph glycoside
Synonym(s): Phenyl α-D-lactopyranoside

Molecular Formula: $C_{18}H_{26}O_{11}$
Molecular Weight: 418.397
Accurate Mass: 418.147515
Percentage Composition: C 51.67%; H 6.26%; O 42.06%
Melting Point: Mp 139-141°
Optical Rotation: $[\alpha]_D^{19}$+65 (c, 2.45 in $CHCl_3$)

>>**Derivative:** 1-Bromo, 1-deoxy, hepta-Ac
Synonym(s): Acetobromolactose

CAS Registry Number: 4753-07-5

Molecular Formula: $C_{26}H_{35}BrO_{17}$
Molecular Weight: 699.456
Accurate Mass: 698.125766
Percentage Composition: C 44.65%; H 5.04%; Br 11.42%; O 38.89%
Melting Point: Mp 145 dec.°
Optical Rotation: $[\alpha]_D^{23}$+108.7 ($CHCl_3$)

>>**Derivative:** 1-Chloro, 1-deoxy, hepta-Ac
Synonym(s): Acetochlorolactose

Molecular Formula: $C_{26}H_{35}ClO_{17}$
Molecular Weight: 655.005
Accurate Mass: 654.156282
Percentage Composition: C 47.68%; H 5.39%; Cl 5.41%; O 41.52%
Melting Point: Mp 120-121°
Optical Rotation: $[\alpha]_D^{20}$+83.9 ($CHCl_3$)

>>**Variant:** β-form

CAS Registry Number: 5965-66-2

Molecular Formula: $C_{12}H_{22}O_{11}$
Molecular Weight: 342.299
Accurate Mass: 342.116215
Percentage Composition: C 42.11%; H 6.48%; O 51.42%
Use/Importance: Anhyd.
Melting Point: Mp 252°
Optical Rotation: $[\alpha]_D$ +55.4 (c, 4 in H_2O)
Aldrich: 25971-3
Sigma: L8773

>>**Derivative:** 1,2,2',3,3',4',6'-Hepta-*O*-Ac

>>**Derivative:** 2,2',3,3',4',6,6'-Hepta-*O*-Ac

>>**Derivative:** Octa-Ac
Synonym(s): Octa-*O*-acetyl-β-D-lactopyranose

Molecular Formula: $C_{28}H_{38}O_{19}$
Molecular Weight: 678.597
Accurate Mass: 678.200735
Percentage Composition: C 49.56%; H 5.64%; O 44.80%
Melting Point: Mp 90°
Optical Rotation: $[\alpha]_D$ –4.4 (c, 10 in $CHCl_3$)