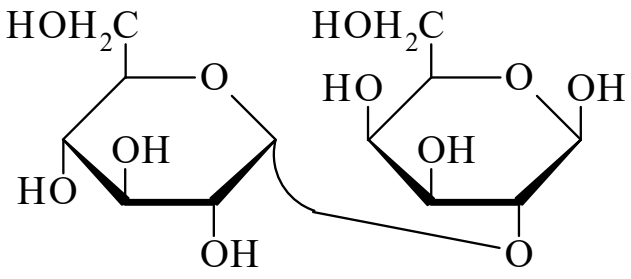
>>**Entry Name: 2-*O*-α-D-Glucopyranosyl-D-galactose,** 9CI, 8CI



b-Pyranose-*form*

CAS Registry Number: 23178-92-9
Related CAS Registry Numbers(s): 7368-73-2

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%
Biological Source: Isol. from the body wall glycoprotein of the leech, *Hirudo medicinalis* and from the partial acid hydrolysate of the specific substance S34 of *Pneumococcus* type 34

>>**Variant:** β-Pyranose-form

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%

>>**Derivative:** Me glycoside
Synonym(s): Methyl 2-*O*-α-D-glucopyranosyl-β-D-galactopyranoside

CAS Registry Number: 101072-32-6
Molecular Formula: $C_{13}H_{24}O_{11}$
Molecular Weight: 356.326
Accurate Mass: 356.131865
Percentage Composition: C 43.82%; H 6.79%; O 49.39%
Optical Rotation: $[\alpha]_D$ +111 (c, 1.0 in H_2O)

>>**Derivative:** Me glycoside, 2',3',4,4',6,6'-hexabenzyl

Molecular Formula: $C_{55}H_{60}O_{11}$
Molecular Weight: 897.072
Accurate Mass: 896.413565
Percentage Composition: C 73.64%; H 6.74%; O 19.62%
Melting Point: Mp 148-149°
Optical Rotation: $[\alpha]_D^{24}$+42 (c, 1.0 in $CHCl_3$)

References:

Dixon, J.R. *et al.*, *Carbohydr. Res.*, 1968, **8**, 262, *(isol)*
Biswas, T. *et al.*, *Carbohydr. Res.*, 1978, **63**, 173, *(isol)*
Nechaev, O.A. *et al.*, *Bioorg. Khim.*, 1988, **14**, 1224; *Sov. J. Bioorg. Chem. (Engl. Transl.)*, 666, *(Me gly)*
Lipkind, G.M. *et al.*, *Bioorg. Khim.*, 1989, **15**, 1366; *Sov. J. Bioorg. Chem. (Engl. Transl.)*, 755, *(cmr, conformn)*