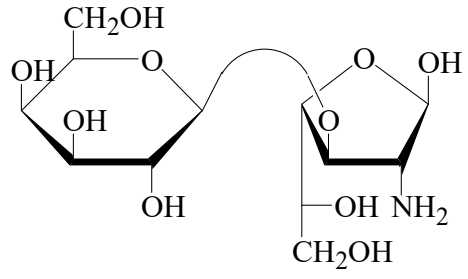
>>**Entry Name:** β-D-**Galactopyranosyl-(1→3)-2-amino-2-deoxy-D-galactose**
Synonym(s): 2-Amino-2-deoxy-3-*O*-β-D-galactopyranosyl-D-galactose



β-D-Furanose-*form*

Molecular Formula: $C_{12}H_{23}NO_{10}$
Molecular Weight: 341.314
Accurate Mass: 341.132199
Percentage Composition: C 42.23%; H 6.79%; N 4.10%; O 46.88%

>>**Derivative:** *N*-Ac
Synonym(s): 2-Acetamido-2-deoxy-3-*O*-β-D-galactopyranosyl-D-galactose. β-D-Galactopyranosyl-(1→3)-2-acetamido-2-deoxy-D-galactose

CAS Registry Number: 3554-90-3
Molecular Formula: $C_{14}H_{25}NO_{11}$
Molecular Weight: 383.352
Accurate Mass: 383.142764
Percentage Composition: C 43.86%; H 6.57%; N 3.65%; O 45.91%
Source/Synthesis: Isol. from the acid hydrolysate of human blood group A, B, H and Le substances
Use/Importance: TF-antigenic disaccharide (Thomsen-Friedenreich)
Optical Rotation: $[\alpha]_D^{35}$+34.5 (c, 0.3 in H_2O)

>>**Derivative:** Me glycoside, 5,6-*O*-isopropylidene, *N*-Ac

CAS Registry Number: 139747-11-8

Molecular Formula: $C_{18}H_{31}NO_{11}$
Molecular Weight: 437.443
Accurate Mass: 437.189714
Percentage Composition: C 49.42%; H 7.14%; N 3.20%; O 40.23%
Optical Rotation: $[\alpha]_D^{35}$–57.3 (c, 2.48 in H_2O)

References:

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Flowers, H.M. *et al.*, *J.O.C.*, 1965, **30**, 2041-2043, *(N-Ac, synth)*
Springer, G.F. *et al.*, *Naturwissenschaften*, 1974, **61**, 457, *(biochem)*
Ghosh, R. *et al.*, *J. Carbohydr. Chem.*, 1992, **11**, 71-75, *(N-Ac deriv, synth, pmr)*