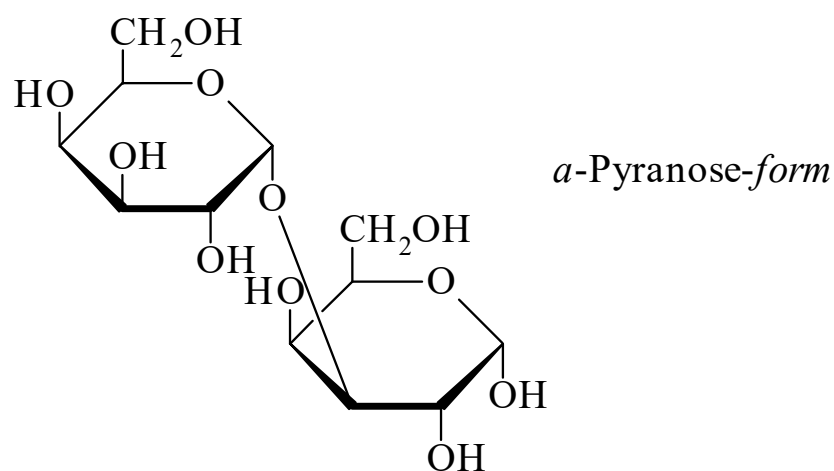




>>Entry Name: 3-*O*- $\alpha$ -D-Galactopyranosyl-D-galactose, 9Cl, 8Cl



CAS Registry Number: 13168-24-6

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 partial acetolysate of  $\lambda$ -carrageenan. Constit. of the products obt. by partial acetolysis of the algae galactans from *Aeodes ulvoidea* and *Pachymenia carnosa*. Constit. of the repeating unit of *Klebsiella* antigens

Optical Rotation:  $[\alpha]_D +184$  (c, 1.25 in  $H_2O$ ).  $[\alpha]_D^{26} +149$  (c, 1.0 in  $H_2O$ )

>>Variant:  $\alpha$ -Pyranose-form

CAS Registry Number: 7313-98-6

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: Octa-Ac

CAS Registry Number: 56994-14-0

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 97-100°

Optical Rotation:  $[\alpha]_D^{23} +137$  (c, 2.0 in  $CHCl_3$ )

>>Derivative: Me glycoside

Synonym(s): Methyl 3-*O*- $\alpha$ -D-galactopyranosyl- $\alpha$ -D-galactopyranoside, 9Cl

CAS Registry Number: 104420-77-1

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%

Melting Point: Mp 227-228°

Optical Rotation:  $[\alpha]_D^{21} +252$  (c, 1.0 in  $H_2O$ )

>>Derivative: 4-Nitrophenyl glycoside

CAS Registry Number: 110891-71-9

Molecular Formula:  $C_{18}H_{25}NO_{13}$

Molecular Weight: 463.394

Percentage Composition: C 46.66%; H 5.44%; N 3.02%; O 44.88%

Physical Description: Cryst +  $\frac{1}{2}H_2O$

Melting Point: Mp 217°

Optical Rotation:  $[\alpha]_D^{21} +298$  (c, 0.3 in MeOH aq.)