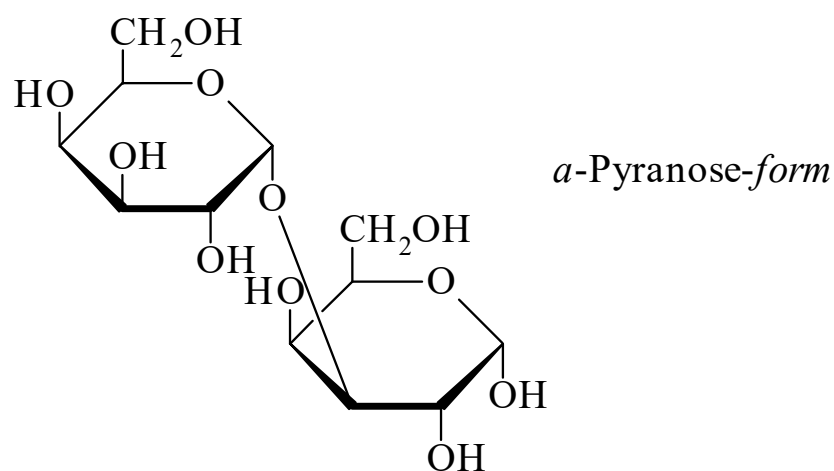




>>Entry Name: 3-*O*- α -D-Galactopyranosyl-D-galactose, 9CI, 8CI



CAS Registry Number: 13168-24-6

Molecular Formula: C₁₂H₂₂O₁₁

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 λ -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 H₂O). $[\alpha]_D^{26} +149$ (c, 1.0 in H₂O)

>>Variant: α -Pyranose-form

CAS Registry Number: 7313-98-6

Molecular Formula: C₁₂H₂₂O₁₁

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: C₂₈H₃₈O₁₉

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 CHCl₃)

>>Derivative: Me glycoside

Synonym(s): Methyl 3-*O*- α -D-galactopyranosyl- α -D-galactopyranoside, 9CI

CAS Registry Number: 104420-77-1

Molecular Formula: C₁₃H₂₄O₁₁

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 H₂O)

>>Derivative: 4-Nitrophenyl glycoside

CAS Registry Number: 110891-71-9

Molecular Formula: C₁₈H₂₅NO₁₃

Molecular Weight: 463.394

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

Physical Description: Cryst + $\frac{1}{2}$ H₂O

Melting Point: Mp 217°

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