

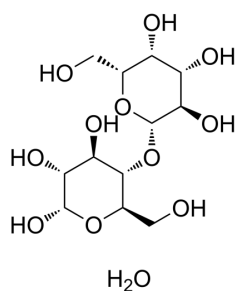
α -Lactose (hydrate)

Cat. No.: HY-W087904
 CAS No.: 5989-81-1
 Batch No.: 361751
 Chemical Name: α -D-Glucopyranose, 4-O- β -D-galactopyranosyl-, hydrate (1:1)

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: $C_{12}H_{24}O_{12}$
 Molecular Weight: 360.31
 Storage: Powder -20°C 3 years
 4°C 2 years
 In solvent -80°C 6 months
 -20°C 1 month

Chemical Structure:



ANALYTICAL DATA

Appearance: White to off-white (Solid)
 1H NMR Spectrum: Consistent with structure
 Purity (NMR): $\geq 98.0\%$
 Residue on Ignition: 0.29%
 Water(KF): 4.96%
 Optical Rotation: 77.417° (C=10.0 g/100ml, H₂O)
 Conclusion: The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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