

# Lactose monohydrate

<b>Other names:</b>	.alpha.-D-lactose hydrate .alpha.-D-lactose monohydrate .alpha.-lactose monohydrate D-Glucose, 4-O-«beta»-D-galactopyranosyl-, hydrate (1:1) Lactose
<b>Inchi:</b>	InChI=1S/C12H22O11.H2O/c13-1-3-5(15)6(16)9(19)12(22-3)23-10-4(2-14)21-11(20)8(18)
<b>InchiKey:</b>	WSVLPVUVIUV CRA-SIQISOGJSA-N
<b>Formula:</b>	C12H24O12
<b>SMILES:</b>	O.OCC1OC(OC2C(CO)OC(O)C(O)C2O)C(O)C(O)C1O
<b>Mol. weight [g/mol]:</b>	360.31
<b>CAS:</b>	64044-51-5

## Sources

**Apparent molar volumes and apparent molar heat capacities of aqueous D-lactose at temperatures from (278.15 to 393.15) K and at the pressure 0.35 MPa:** <https://www.doi.org/10.1016/j.jct.2004.03.018>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C64044515&Units=SI>

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