«alpha»-D-Glucopyranose, 4-O-«beta»-D-galactopyranosyl-, hydrate (1:1)

Other names: .alpha.-D-Glucopyranose, 4-O-.beta.-D-galactopyranosyl-, monohydrate
«alpha»-Lactose monohydrate

Inchi: 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

InchiKey: WSVLPVUVIUVCRA-UHFFFAOYSA-N

Formula: C12H22O11.H2O

SMILES: O.OCC1OC(OC2C(CO)OC(O)C(O)C2O)C(O)C(O)C1O

Mol. weight [g/mol]: 360.31

CAS: 5989-81-1

Physical Properties

Property code	Value	Unit	Source
ss	414.60	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	439.57	J/mol×K	297.42	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C5989811&Units=SI

Legend

cps: Solid phase heat capacity

ss: Solid phase molar entropy at standard conditions

Latest version available from:

https://www.chemeo.com/cid/16-034-6/alpha-D-Glucopyranose-4-O-beta-D-galactopyranosyl-hydrate-1-1.pdf

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