Alpha,d-glucopyranoside, 2-acetamido-2-deoxy-

Other names: «alpha»-D-Glucopyranose, 2-(acetylamino)-2-deoxy-
«alpha»-D-glucopyranoside, 2-acetamido-2-deoxy-,
N-Acetyl-«alpha»-D-glucosamine
Glucopyranose, 2-acetamido-2-deoxy-, «alpha»-D-
Alpha,d-glucopyranoside, 2-acetamido-2-deoxy-,
Inchi: InChI=1S/C8H15NO6/c1-3(11)9-5-7(13)6(12)4(2-10)15-8(5)14/h4-8,10,12-14H,2H2,1H3,
InchiKey: OVRNDRQMDRJTHS-UHFFFAOYSA-N
Formula: C8H15NO6
SMILES: CC(=O)NC1C(O)OC(CO)C(O)C1O
Mol. weight [g/mol]: 221.21

Physical Properties

Property code	Value	Unit	Source
hfus	43.62	kJ/mol	Joback Method
logp	-3.078		Crippen Method
mcvol	153.620	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	537.44	J/mol×K	883.02	Joback Method
cpg	545.94	J/mol×K	916.08	Joback Method
cpg	553.63	J/mol×K	949.13	Joback Method
cpg	560.51	J/mol×K	982.19	Joback Method
cpg	566.58	J/mol×K	1015.24	Joback Method
cpg	571.84	J/mol×K	1048.30	Joback Method
cpg	576.29	J/mol×K	1081.35	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10036643&Units=SI

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume