L-glucose

Inchi: InChI=1S/2C6H12O6/c2*7-1-2-3(8)4(9)5(10)6(11)12-2/h2*2-11H,1H2/t2-,3+,4+,5+,6?;2-,
InchiKey: NHUFMXNVSAWNTO-QPPKWXPNSA-N
Formula: C12H24O12
SMILES: OC[C@@H]1OC(O)[C@@H](O)[C@H](O)[C@H]1O.OC[C@@H]1OC(O)[C@H](O)[C@
Mol. weight [g/mol]: 360.31

Physical Properties

Property code	Value	Unit	Source
hfus	72.55	kJ/mol	Joback Method
log10ws	0.24		Cheméo Relay (1.0)
logp	-6.443		Crippen Method
mcvol	239.520	ml/mol	McGowan Method
tf	478.53	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	841.05	J/mol×K	1452.80	Joback Method
cpg	723.21	J/mol×K	1598.05	Joback Method
cpg	553.78	J/mol×K	1743.30	Joback Method
cpg	328.88	J/mol×K	1888.55	Joback Method
cpg	44.60	J/mol×K	2033.80	Joback Method
cpg	-302.92	J/mol×K	2179.05	Joback Method
cpg	-717.58	J/mol×K	2324.29	Joback Method
dvisc	4.6584063e-11	Pa×s	834.44	Joback Method
dvisc	4.1994635e-12	Pa×s	937.50	Joback Method
dvisc	6.0975922e-13	Pa×s	1040.56	Joback Method
dvisc	1.2536203e-13	Pa×s	1143.62	Joback Method
dvisc	3.3477854e-14	Pa×s	1246.68	Joback Method
dvisc	1.0937421e-14	Pa×s	1349.74	Joback Method
dvisc	0.0000000	Pa×s	1452.80	Joback Method

Sources

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=C921608&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point