

D-glucose, 4,6-o-ethylidene

Inchi:	InChI=1S/C8H14O6/c1-3-12-2-4-7(13-3)5(9)6(10)8(11)14-4/h3-11H,2H2,1H3
InchiKey:	VZPBLPQAMPVTFO-UHFFFAOYSA-N
Formula:	C8H14O6
SMILES:	CC1OCC2OC(O)C(O)C(O)C2O1
Mol. weight [g/mol]:	206.19
CAS:	18465-50-4

Physical Properties

Property code	Value	Unit	Source
gf	-610.08	kJ/mol	Joback Method
hf	-1021.54	kJ/mol	Joback Method
hfus	44.83	kJ/mol	Joback Method
hvap	96.25	kJ/mol	Joback Method
log10ws	0.33		Crippen Method
logp	-1.813		Crippen Method
mcvol	137.080	ml/mol	McGowan Method
pc	4391.59	kPa	Joback Method
tb	751.71	K	Joback Method
tc	940.83	K	Joback Method
tf	446.93	K	Joback Method
vc	0.481	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	472.16	J/mol×K	751.71	Joback Method
cpg	520.16	J/mol×K	909.31	Joback Method
cpg	511.99	J/mol×K	877.79	Joback Method
cpg	503.11	J/mol×K	846.27	Joback Method
cpg	493.52	J/mol×K	814.75	Joback Method
cpg	483.21	J/mol×K	783.23	Joback Method
cpg	527.65	J/mol×K	940.83	Joback Method
dvisc	0.0000125	Pa×s	751.71	Joback Method
dvisc	0.0000218	Pa×s	700.91	Joback Method

dvisc	0.0000413	Pa×s	650.12	Joback Method
dvisc	0.0000873	Pa×s	599.32	Joback Method
dvisc	0.0002117	Pa×s	548.52	Joback Method
dvisc	0.0006152	Pa×s	497.73	Joback Method
dvisc	0.0022788	Pa×s	446.93	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18465504&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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