

1,6-Anhydro-«beta»-D-glucofuranose

Inchi:	InChI=1S/C6H10O5/c7-2-1-10-6-4(9)3(8)5(2)11-6/h2-9H,1H2
InchiKey:	GYNYBVOAJFHCRG-UHFFFAOYSA-N
Formula:	C6H10O5
SMILES:	OC1COC2OC1C(O)C2O
Mol. weight [g/mol]:	162.14
CAS:	7425-74-3

Physical Properties

Property code	Value	Unit	Source
gf	-508.89	kJ/mol	Joback Method
hf	-815.60	kJ/mol	Joback Method
hfus	34.80	kJ/mol	Joback Method
hvap	87.25	kJ/mol	Joback Method
log10ws	0.86		Crippen Method
logp	-2.176		Crippen Method
mcvol	103.030	ml/mol	McGowan Method
pc	5695.98	kPa	Joback Method
tb	675.13	K	Joback Method
tc	856.72	K	Joback Method
tf	409.10	K	Joback Method
vc	0.365	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.75	J/molxK	675.13	Joback Method
cpg	342.77	J/molxK	705.39	Joback Method
cpg	351.27	J/molxK	735.66	Joback Method
cpg	359.28	J/molxK	765.92	Joback Method
cpg	366.82	J/molxK	796.19	Joback Method
cpg	373.91	J/molxK	826.45	Joback Method
cpg	380.58	J/molxK	856.72	Joback Method
dvisc	0.0056868	Paxs	409.10	Joback Method
dvisc	0.0016646	Paxs	453.44	Joback Method

dvisc	0.0006065	Paxs	497.78	Joback Method
dvisc	0.0002606	Paxs	542.12	Joback Method
dvisc	0.0001273	Paxs	586.45	Joback Method
dvisc	0.0000687	Paxs	630.79	Joback Method
dvisc	0.0000403	Paxs	675.13	Joback Method

Sources

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=C7425743&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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
mccvol:	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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