3,6-Dihydro-2H-pyran-2-one

Inchi: InChI=1S/C5H6O2/c6-5-3-1-2-4-7-5/h1-2H,3-4H2
InchiKey: VREFDQNWPNDZEX-UHFFFAOYSA-N
Formula: C5H6O2
SMILES: O=C1CC=CCO1
Mol. weight [g/mol]: 98.10

Physical Properties

Property code	Value	Unit	Source
gf	-155.37	kJ/mol	Joback Method
hf	-283.79	kJ/mol	Joback Method
hfus	8.18	kJ/mol	Joback Method
hvap	36.51	kJ/mol	Joback Method
log10ws	-0.53		Crippen Method
logp	0.489		Crippen Method
mcvol	73.590	ml/mol	McGowan Method
pc	5116.65	kPa	Joback Method
rinpol	914.00		NIST Webbook
rinpol	914.00		NIST Webbook
tb	431.95	K	Joback Method
tc	664.11	K	Joback Method
tf	253.28	K	Joback Method
vc	0.264	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	137.36	J/mol×K	431.95	Joback Method
cpg	148.11	J/mol×K	470.64	Joback Method
cpg	158.40	J/mol×K	509.34	Joback Method
cpg	168.20	J/mol×K	548.03	Joback Method
cpg	177.50	J/mol×K	586.72	Joback Method
cpg	186.29	J/mol×K	625.41	Joback Method
cpg	194.57	J/mol×K	664.11	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=R611413&Units=SI

Legend

cpg:	Ideal gas heat capacity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume