4,5-dihydro-2-methyl-3(2H)-furanone

Inchi: InChI=1S/C6H10O2/c1-4-5(2)8-3-6(4)7/h4-5H,3H2,1-2H3
InchiKey: ISIVDUBNFATCAR-UHFFFAOYSA-N
Formula: C6H10O2
SMILES: CC1OCC(=O)C1C
Mol. weight [g/mol]: 114.14

Physical Properties

Property code	Value	Unit	Source
gf	-180.23	kJ/mol	Joback Method
hf	-396.73	kJ/mol	Joback Method
hfus	13.79	kJ/mol	Joback Method
hvap	37.66	kJ/mol	Joback Method
log10ws	-0.47		Crippen Method
logp	0.610		Crippen Method
mcvol	91.980	ml/mol	McGowan Method
pc	3805.69	kPa	Joback Method
rinpol	820.00		NIST Webbook
rinpol	806.00		NIST Webbook
rinpol	820.00		NIST Webbook
rinpol	806.00		NIST Webbook
tb	442.06	K	Joback Method
tc	658.70	K	Joback Method
tf	258.83	K	Joback Method
vc	0.340	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.95	J/mol×K	442.06	Joback Method
cpg	207.25	J/mol×K	478.17	Joback Method
cpg	220.06	J/mol×K	514.27	Joback Method
cpg	232.37	J/mol×K	550.38	Joback Method
cpg	244.15	J/mol×K	586.49	Joback Method
cpg	255.40	J/mol×K	622.59	Joback Method

cpg	266.11	J/mol×K	658.70	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=R231002&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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