5-Methyl-5-ethenyldihydro-2(3H)-furanone

Inchi: InChI=1S/C8H14O/c1-4-8(3)6-5-7(2)9-8/h4,7H,1,5-6H2,2-3H3
InchiKey: UZNFMVFUQYWYET-UHFFFAOYSA-N
Formula: C8H14O
SMILES: C=CC1(C)CCC(C)O1
Mol. weight [g/mol]: 126.20

Physical Properties

Property code	Value	Unit	Source
gf	41.55	kJ/mol	Joback Method
hf	-159.64	kJ/mol	Joback Method
hfus	11.88	kJ/mol	Joback Method
hvap	36.04	kJ/mol	Joback Method
log10ws	-2.23		Crippen Method
logp	2.130		Crippen Method
mcvol	114.290	ml/mol	McGowan Method
pc	3224.64	kPa	Joback Method
ripol	1639.00		NIST Webbook
ripol	1639.00		NIST Webbook
ripol	1639.00		NIST Webbook
ripol	1639.00		NIST Webbook
tb	416.92	K	Joback Method
tc	622.80	K	Joback Method
tf	235.29	K	Joback Method
vc	0.423	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.81	J/mol×K	416.92	Joback Method
cpg	247.12	J/mol×K	451.23	Joback Method
cpg	262.30	J/mol×K	485.55	Joback Method
cpg	276.45	J/mol×K	519.86	Joback Method
cpg	289.66	J/mol×K	554.17	Joback Method
cpg	302.03	J/mol×K	588.49	Joback Method

cpg	313.65	J/mol×K	622.80	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R302822&Units=SI
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

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume