5-(2-Methoxypropan-2-yl)-2-methyl-2-vinyltetrahyd

Inchi: InChI=1S/C11H20O2/c1-6-11(4)8-7-9(13-11)10(2,3)12-5/h6,9H,1,7-8H2,2-5H3
InchiKey: YBLBDOWUZVNOKH-UHFFFAOYSA-N
Formula: C11H20O2
SMILES: C=CC1(C)CCC(C(C)(C)OC)O1
Mol. weight [g/mol]: 184.28
CAS: 126657-18-9

Physical Properties

Property code	Value	Unit	Source
gf	-35.35	kJ/mol	Joback Method
hf	-362.53	kJ/mol	Joback Method
hfus	13.43	kJ/mol	Joback Method
hvap	43.83	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	2.535		Crippen Method
mcvol	162.430	ml/mol	McGowan Method
pc	2386.52	kPa	Joback Method
tb	504.75	K	Joback Method
tc	714.49	K	Joback Method
tf	293.75	K	Joback Method
vc	0.599	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.83	J/mol×K	504.75	Joback Method
cpg	413.17	J/mol×K	539.71	Joback Method
cpg	431.26	J/mol×K	574.66	Joback Method
cpg	448.21	J/mol×K	609.62	Joback Method
cpg	464.15	J/mol×K	644.58	Joback Method
cpg	479.17	J/mol×K	679.53	Joback Method
cpg	493.42	J/mol×K	714.49	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=C126657189&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume