2-(2-Methylvinyloxy)-4-methyl-1-pentene

Inchi: InChI=1S/C9H16O/c1-7(2)6-9(5)10-8(3)4/h7H,3,5-6H2,1-2,4H3
InchiKey: OJUFBWAXKOMFSL-UHFFFAOYSA-N
Formula: C9H16O
SMILES: C=C(C)OC(=C)CC(C)C
Mol. weight [g/mol]: 140.22
CAS: 61463-39-6

Physical Properties

Property code	Value	Unit	Source
gf	76.04	kJ/mol	Joback Method
hf	-135.31	kJ/mol	Joback Method
hfus	11.55	kJ/mol	Joback Method
hvap	36.47	kJ/mol	Joback Method
log10ws	-3.13		Crippen Method
logp	3.096		Crippen Method
mcvol	134.940	ml/mol	McGowan Method
pc	2507.52	kPa	Joback Method
tb	420.42	K	Joback Method
tc	600.79	K	Joback Method
tf	166.98	K	Joback Method
vc	0.515	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	266.94	J/mol×K	420.42	Joback Method
cpg	280.48	J/mol×K	450.48	Joback Method
cpg	293.49	J/mol×K	480.54	Joback Method
cpg	305.96	J/mol×K	510.61	Joback Method
cpg	317.91	J/mol×K	540.67	Joback Method
cpg	329.35	J/mol×K	570.73	Joback Method
cpg	340.30	J/mol×K	600.79	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C61463396&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume