2-Vinyloxy-4-methyl-1-pentene

Inchi: InChI=1S/C8H14O/c1-5-9-8(4)6-7(2)3/h5,7H,1,4,6H2,2-3H3
InchiKey: WZRXNJANVSLSCZ-UHFFFAOYSA-N
Formula: C8H14O
SMILES: C=COC(=C)CC(C)C
Mol. weight [g/mol]: 126.20
CAS: 61463-36-3

Physical Properties

Property code	Value	Unit	Source
gf	76.17	kJ/mol	Joback Method
hf	-104.88	kJ/mol	Joback Method
hfus	10.27	kJ/mol	Joback Method
hvap	34.16	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.706		Crippen Method
mcvol	120.850	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
tb	397.66	K	Joback Method
tc	575.67	K	Joback Method
tf	169.67	K	Joback Method
vc	0.459	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.27	J/mol×K	397.66	Joback Method
cpg	239.42	J/mol×K	427.33	Joback Method
cpg	251.10	J/mol×K	457.00	Joback Method
cpg	262.32	J/mol×K	486.66	Joback Method
cpg	273.09	J/mol×K	516.33	Joback Method
cpg	283.42	J/mol×K	546.00	Joback Method
cpg	293.32	J/mol×K	575.67	Joback Method

Sources

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=C61463363&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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