(E) 2-Vinyloxy-4-methyl-2-pentene

Inchi: InChI=1S/C8H14O/c1-5-9-8(4)6-7(2)3/h5-7H,1H2,2-4H3/b8-6+
InchiKey: OPZFAMQVQGGUIO-SOFGYWHQSA-N
Formula: C8H14O
SMILES: C=COC(C)=CC(C)C
Mol. weight [g/mol]: 126.20
CAS: 61463-37-4

Physical Properties

Property code	Value	Unit	Source
gf	68.55	kJ/mol	Joback Method
hf	-113.09	kJ/mol	Joback Method
hfus	11.75	kJ/mol	Joback Method
hvap	34.79	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.706		Crippen Method
mcvol	120.850	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
tb	405.14	K	Joback Method
tc	588.44	K	Joback Method
tf	166.35	K	Joback Method
vc	0.458	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.40	J/mol×K	405.14	Joback Method
cpg	239.93	J/mol×K	435.69	Joback Method
cpg	251.92	J/mol×K	466.24	Joback Method
cpg	263.39	J/mol×K	496.79	Joback Method
cpg	274.35	J/mol×K	527.34	Joback Method
cpg	284.83	J/mol×K	557.89	Joback Method
cpg	294.83	J/mol×K	588.44	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C61463374&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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