2-Vinyloxy-3-methyl-1-butene

Inchi: InChI=1S/C7H12O/c1-5-8-7(4)6(2)3/h5-6H,1,4H2,2-3H3
InchiKey: KYTUJWLRHQBMJM-UHFFFAOYSA-N
Formula: C7H12O
SMILES: C=COC(=C)C(C)C
Mol. weight [g/mol]: 112.17
CAS: 61463-42-1

Physical Properties

Property code	Value	Unit	Source
gf	67.75	kJ/mol	Joback Method
hf	-84.24	kJ/mol	Joback Method
hfus	7.68	kJ/mol	Joback Method
hvap	31.94	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	2.316		Crippen Method
mcvol	106.760	ml/mol	McGowan Method
pc	3052.41	kPa	Joback Method
tb	374.78	K	Joback Method
tc	553.59	K	Joback Method
tf	158.40	K	Joback Method
vc	0.403	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.89	J/mol×K	374.78	Joback Method
cpg	200.74	J/mol×K	404.58	Joback Method
cpg	211.17	J/mol×K	434.38	Joback Method
cpg	221.21	J/mol×K	464.18	Joback Method
cpg	230.84	J/mol×K	493.98	Joback Method
cpg	240.09	J/mol×K	523.78	Joback Method
cpg	248.96	J/mol×K	553.59	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C61463421&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