2-methyl-2-vinyl-5-isopropyltetrahydrofuran

Other names: tetrahydro-5-isopropenyl-2-methyl-2-vinylfuran
Inchi: InChI=1S/C10H18O/c1-5-10(4)7-6-9(11-10)8(2)3/h5,8-9H,1,6-7H2,2-4H3
InchiKey: GPVKUNYYWAKDRY-UHFFFAOYSA-N
Formula: C10H18O
SMILES: C=CC1(C)CCC(C(C)C)O1
Mol. weight [g/mol]: 154.25
CAS: 13679-86-2

Physical Properties

Property code	Value	Unit	Source
gf	55.95	kJ/mol	Joback Method
hf	-206.20	kJ/mol	Joback Method
hfus	13.54	kJ/mol	Joback Method
hvap	40.10	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	2.766		Crippen Method
mcvol	142.470	ml/mol	McGowan Method
pc	2643.39	kPa	Joback Method
ripol	1074.00		NIST Webbook
ripol	1074.00		NIST Webbook
tb	462.24	K	Joback Method
tc	668.06	K	Joback Method
tf	242.83	K	Joback Method
vc	0.529	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.54	J/mol×K	462.24	Joback Method
cpg	335.96	J/mol×K	496.54	Joback Method
cpg	353.20	J/mol×K	530.85	Joback Method
cpg	369.36	J/mol×K	565.15	Joback Method
cpg	384.54	J/mol×K	599.45	Joback Method
cpg	398.84	J/mol×K	633.76	Joback Method

cpg	412.37	J/mol×K	668.06	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=C13679862&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume