2-Methyl-2,5-divinyltetrahydrofuran

Inchi: InChI=1S/C9H14O/c1-4-8-6-7-9(3,5-2)10-8/h4-5,8H,1-2,6-7H2,3H3
InchiKey: BYXCYPBKZWWZIN-UHFFFAOYSA-N
Formula: C9H14O
SMILES: C=CC1CCC(C)(C=C)O1
Mol. weight [g/mol]: 138.21
CAS: 104188-15-0

Physical Properties

Property code	Value	Unit	Source
gf	137.81	kJ/mol	Joback Method
hf	-54.85	kJ/mol	Joback Method
hfus	13.19	kJ/mol	Joback Method
hvap	37.59	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	2.296		Crippen Method
mcvol	124.080	ml/mol	McGowan Method
pc	3035.62	kPa	Joback Method
rinpol	914.00		NIST Webbook
rinpol	912.00		NIST Webbook
rinpol	912.00		NIST Webbook
rinpol	915.70		NIST Webbook
rinpol	912.00		NIST Webbook
rinpol	915.70		NIST Webbook
rinpol	914.00		NIST Webbook
rinpol	914.00		NIST Webbook
tb	436.48	K	Joback Method
tc	644.65	K	Joback Method
tf	244.80	K	Joback Method
vc	0.461	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.79	J/mol×K	436.48	Joback Method

cpg	273.41	J/mol×K	471.18	Joback Method
cpg	288.84	J/mol×K	505.87	Joback Method
cpg	303.20	J/mol×K	540.57	Joback Method
cpg	316.58	J/mol×K	575.26	Joback Method
cpg	329.11	J/mol×K	609.96	Joback Method
cpg	340.88	J/mol×K	644.65	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C104188150&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume