Hydrazine, 1,1-di-2-propenyl-

Other names:	Hydrazine, 1,1-diallyl-
	1,1-DAH
	Diallylhydrazine
	1,1-Diallylhydrazine
Inchi:	InChI=1S/C6H12N2/c1-3-5-8(7)6-4-2/h3-4H,1-2,5-7H2
InchiKey:	UPVLRUMEBXYJMQ-UHFFFAOYSA-N
Formula:	C6H12N2
SMILES:	C=CCN(N)CC=C
Mol. weight [g/mol]:	112.17
CAS:	5164-11-4

Physical Properties

Property code	Value	Unit	Source
gf	352.55	kJ/mol	Joback Method
hf	185.01	kJ/mol	Joback Method
hfus	16.95	kJ/mol	Joback Method
hvap	40.29	kJ/mol	Joback Method
log10ws	-1.04		Crippen Method
logp	0.534		Crippen Method
mcvol	106.760	ml/mol	McGowan Method
pc	3650.93	kPa	Joback Method
rinpol	867.00		NIST Webbook
rinpol	867.00		NIST Webbook
tb	415.01	K	Joback Method
tc	600.85	K	Joback Method
tf	269.59	K	Joback Method
vc	0.381	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.27	J/mol×K	415.01	Joback Method
cpg	220.58	J/mol×K	445.98	Joback Method
cpg	231.28	J/mol×K	476.96	Joback Method

cpg	241.42	J/mol×K	507.93	Joback Method
cpg	251.00	J/mol×K	538.90	Joback Method
cpg	260.06	J/mol×K	569.87	Joback Method
cpg	268.63	J/mol×K	600.85	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5164114&Units=SI

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