Hydrazine, 1.2-diallyl

Inchi: InChI=1S/C6H12N2/c1-3-5-7-8-6-4-2/h3-4,7-8H,1-2,5-6H2
InchiKey: CEMKFIOFRQVXSS-UHFFFAOYSA-N
Formula: C6H12N2
SMILES: C=CCNNCC=C
Mol. weight [g/mol]: 112.17

Physical Properties

Property code	Value	Unit	Source
gf	354.10	kJ/mol	Joback Method
hf	190.63	kJ/mol	Joback Method
hfus	18.93	kJ/mol	Joback Method
hvap	40.48	kJ/mol	Joback Method
log10ws	-1.41		Crippen Method
logp	0.453		Crippen Method
mcvol	106.760	ml/mol	McGowan Method
pc	3526.27	kPa	Joback Method
rinpol	863.00		NIST Webbook
tb	430.38	K	Joback Method
tc	612.17	K	Joback Method
tf	259.18	K	Joback Method
vc	0.404	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	211.07	J/mol×K	430.38	Joback Method
cpg	221.92	J/mol×K	460.68	Joback Method
cpg	232.25	J/mol×K	490.98	Joback Method
cpg	242.08	J/mol×K	521.28	Joback Method
cpg	251.42	J/mol×K	551.58	Joback Method
cpg	260.30	J/mol×K	581.88	Joback Method
cpg	268.73	J/mol×K	612.17	Joback Method

Sources

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=R511749&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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