

Hydrazine, 2-propenyl-

Other names:	Hydrazine, allyl- Allylhydrazine
Inchi:	InChI=1S/C3H8N2/c1-2-3-5-4/h2,5H,1,3-4H2
InchiKey:	ZTILHLWDFSMCLZ-UHFFFAOYSA-N
Formula:	C3H8N2
SMILES:	C=CCNN
Mol. weight [g/mol]:	72.11
CAS:	7422-78-8

Physical Properties

Property code	Value	Unit	Source
gf	218.06	kJ/mol	Joback Method
hf	107.44	kJ/mol	Joback Method
hfus	12.54	kJ/mol	Joback Method
hvap	38.68	kJ/mol	Joback Method
log10ws	-0.55		Crippen Method
logp	-0.364		Crippen Method
mvol	68.790	ml/mol	McGowan Method
pc	5146.06	kPa	Joback Method
rinpol	738.00		NIST Webbook
rinpol	738.00		NIST Webbook
tb	387.42	K	Joback Method
tc	579.87	K	Joback Method
tf	257.73	K	Joback Method
vc	0.248	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	125.61	J/molxK	387.42	Joback Method
cpg	133.07	J/molxK	419.49	Joback Method
cpg	140.18	J/molxK	451.57	Joback Method
cpg	146.93	J/molxK	483.64	Joback Method
cpg	153.36	J/molxK	515.72	Joback Method

cpg	159.46	J/mol×K	547.79	Joback Method
cpg	165.25	J/mol×K	579.87	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=C7422788&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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