Hydrazine, 1-methyl-1-propyl-

Other names: 1-Methyl-1-n-propylhydrazine
Inchi: InChI=1S/C4H12N2/c1-3-4-6(2)5/h3-5H2,1-2H3
InchiKey: JOFQXPUKJJQCPW-UHFFFAOYSA-N
Formula: C4H12N2
SMILES: CCCN(C)N
Mol. weight [g/mol]: 88.15
CAS: 4986-49-6

Physical Properties

Property code	Value	Unit	Source
gf	160.03	kJ/mol	Joback Method
hf	-24.57	kJ/mol	Joback Method
hfus	14.33	kJ/mol	Joback Method
hvap	37.18	kJ/mol	Joback Method
log10ws	-0.49		Crippen Method
logp	0.202		Crippen Method
mcvol	87.180	ml/mol	McGowan Method
pc	4178.49	kPa	Joback Method
rinpol	701.00		NIST Webbook
tb	375.89	K	Joback Method
tc	556.09	K	Joback Method
tf	250.57	K	Joback Method
vc	0.306	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	164.25	J/mol×K	375.89	Joback Method
cpg	174.32	J/mol×K	405.92	Joback Method
cpg	183.93	J/mol×K	435.96	Joback Method
cpg	193.12	J/mol×K	465.99	Joback Method
cpg	201.89	J/mol×K	496.02	Joback Method
cpg	210.26	J/mol×K	526.05	Joback Method
cpg	218.23	J/mol×K	556.09	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=C4986496&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