Hydrazine, 1,1-dipropyl-

Other names:	1,1-Dipropylhydrazine
	1,1-di-n-Propylhydrazine
Inchi:	InChI=1S/C6H16N2/c1-3-5-8(7)6-4-2/h3-7H2,1-2H3
InchiKey:	ZHHHDUSWMATTFE-UHFFFAOYSA-N
Formula:	C6H16N2
SMILES:	CCCN(N)CCC
Mol. weight [g/mol]:	116.20
CAS:	4986-50-9

Physical Properties

Property code	Value	Unit	Source
gf	176.87	kJ/mol	Joback Method
hf	-65.85	kJ/mol	Joback Method
hfus	19.51	kJ/mol	Joback Method
hvap	41.63	kJ/mol	Joback Method
ie	8.51	eV	NIST Webbook
log10ws	-1.33		Crippen Method
logp	0.982		Crippen Method
mcvol	115.360	ml/mol	McGowan Method
pc	3306.75	kPa	Joback Method
rinpol	859.00		NIST Webbook
tb	421.65	K	Joback Method
tc	599.87	K	Joback Method
tf	273.11	K	Joback Method
vc	0.418	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.14	J/mol×K	421.65	Joback Method
cpg	252.66	J/mol×K	451.35	Joback Method
cpg	264.63	J/mol×K	481.06	Joback Method
cpg	276.06	J/mol×K	510.76	Joback Method
cpg	286.98	J/mol×K	540.46	Joback Method

cpg	297.40	J/mol×K	570.17	Joback Method
cpg	307.34	J/mol×K	599.87	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4986509&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

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
ie:	Ionization energy
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