4-Piperidinamine, 2,2,6,6-tetramethyl-

Other names:	2,2,6,6-Tetramethyl-4-aminopiperidine
	4-Amino-2,2,6,6-tetramethylpiperidine
	Piperidine, 4-amino-2,2,6,6-tetramethyl-
	2,2,6,6-tetramethyl-4-piperidylamine
Inchi:	InChI=1S/C9H20N2/c1-8(2)5-7(10)6-9(3,4)11-8/h7,11H,5-6,10H2,1-4H3
InchiKey:	FTVFPPFZRRKJIH-UHFFFAOYSA-N
Formula:	C9H20N2
SMILES:	CC1(C)CC(N)CC(C)(C)N1
Mol. weight [g/mol]:	156.27
CAS:	36768-62-4

Physical Properties

Property code	Value	Unit	Source
gf	177.11	kJ/mol	Joback Method
hf	-113.37	kJ/mol	Joback Method
hfus	15.23	kJ/mol	Joback Method
hvap	50.54	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	1.254		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	3188.33	kPa	Joback Method
tb	461.70	K	NIST Webbook
tc	772.17	K	Joback Method
tf	426.18	K	Joback Method
vc	0.532	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.89	J/mol×K	537.09	Joback Method
cpg	390.00	J/mol×K	576.27	Joback Method
cpg	407.86	J/mol×K	615.45	Joback Method
cpg	424.69	J/mol×K	654.63	Joback Method
cpg	440.73	J/mol×K	693.81	Joback Method

cpg	456.19	J/mol×K	732.99	Joback Method
cpg	471.30	J/mol×K	772.17	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C36768624&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume