

4-Piperidinol, 2,2,6,6-tetramethyl-

Other names:	2,2,6,6-Tetramethyl-4-piperidinol 4-Hydroxy-2,2,6,6-tetramethylpiperidine 2,2,6,6-Tetramethyl-4-hydroxypiperidine Lastar A 2,2,6,6-tetramethylpiperidin-4-ol
Inchi:	InChI=1S/C9H19NO/c1-8(2)5-7(11)6-9(3,4)10-8/h7,10-11H,5-6H2,1-4H3
InchiKey:	VDVUCLWJZJHFAV-UHFFFAOYSA-N
Formula:	C9H19NO
SMILES:	CC1(C)CC(O)CC(C)(C)N1
Mol. weight [g/mol]:	157.25
CAS:	2403-88-5

Physical Properties

Property code	Value	Unit	Source
gf	-26.16	kJ/mol	Joback Method
hf	-299.39	kJ/mol	Joback Method
hfus	14.12	kJ/mol	Joback Method
hvap	56.57	kJ/mol	Joback Method
log10ws	-2.27		Crippen Method
logp	1.288		Crippen Method
mcvol	142.660	ml/mol	McGowan Method
pc	3318.18	kPa	Joback Method
tb	486.70	K	NIST Webbook
tc	765.00	K	Joback Method
tf	403.74	K	Joback Method
vc	0.522	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.73	J/molxK	556.74	Joback Method
cpg	383.65	J/molxK	591.45	Joback Method
cpg	398.68	J/molxK	626.16	Joback Method
cpg	412.99	J/molxK	660.87	Joback Method

cpg	426.72	J/mol×K	695.58	Joback Method
cpg	440.03	J/mol×K	730.29	Joback Method
cpg	453.08	J/mol×K	765.00	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2403885&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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