4-Piperidinol, 2,2,6,6-tetramethyl-, 1-oxide

Other names: 4-Piperidinol, 1-hydroxy-2,2,6,6-tetramethyl-
1,4-Dihydroxy-2,2,6,6-Tetramethylpiperidine
1-Hydroxy-2,2,6,6-tetramethyl-4-piperidinol
Inchi: InChI=1S/C9H19NO2/c1-8(2)5-7(11)6-9(3,4)10(8)12/h7,11-12H,5-6H2,1-4H3
InchiKey: CSGAUKGQUCHWDP-UHFFFAOYSA-N
Formula: C9H19NO2
SMILES: CC1(C)CC(O)CC(C)(C)N1O
Mol. weight [g/mol]: 173.25
CAS: 3637-10-3

Physical Properties

Property code	Value	Unit	Source
chs	-5811.50 ± 1.40	kJ/mol	NIST Webbook
hf	-345.30 ± 1.90	kJ/mol	NIST Webbook
hfs	-445.70 ± 1.40	kJ/mol	NIST Webbook
log10ws	-1.31		Crippen Method
logp	1.389		Crippen Method
mcvol	148.530	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	100.40 ± 0.60	kJ/mol	333.00	NIST Webbook
hsubt	100.00 ± 0.50	kJ/mol	313.00	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C3637103&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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