2,2,6,6-tetramethyl-4-oxopiperidinooxy

Other names: 1-Piperidinyloxy, 2,2,6,6-tetramethyl-4-oxo-
Inchi: InChI=1S/C9H16NO2/c1-8(2)5-7(11)6-9(3,4)10(8)12/h5-6H2,1-4H3
InchiKey: WSGDRFHJFJRSFY-UHFFFAOYSA-N
Formula: C9H16NO2
SMILES: CC1(C)CC(=O)CC(C)(C)N1[O]
Mol. weight [g/mol]: 170.23
CAS: 2896-70-0

Physical Properties

Property code	Value	Unit	Source
chs	-5529.70 ± 6.50	kJ/mol	NIST Webbook
hf	-215.30 ± 6.50	kJ/mol	NIST Webbook
hfs	-298.60 ± 6.50	kJ/mol	NIST Webbook
ie	7.40 ± 0.05	eV	NIST Webbook
ie	7.40 ± 0.10	eV	NIST Webbook
log10ws	-6.44		Crippen Method
logp	1.554		Crippen Method
mcvol	142.080	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	83.30 ± 1.60	kJ/mol	275.00	NIST Webbook

Sources

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=C2896700&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume