1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl-

Other names: Piperidinooxy, 4-hydroxy-2,2,6,6-tetramethyl-
Tanol
Tempol
Tetramethylpiperidino-N-oxyl
Tetramethylpiperidinol N-oxyl
TMPN
2,2,4,4-Tetramethyl-4-Piperidinol N-oxide
2,2,6,6-Tetramethyl-4-hydroxypiperidin-1-oxyl
2,2,6,6-Tetramethyl-4-hydroxypiperidinooxy
2,2,6,6-Tetramethyl-4-hydroxypiperidinooxy radical
2,2,6,6-Tetramethyl-4-hydroxypiperidyl 1-oxyl
2,2,6,6-Tetramethyl-4-oxypiperidine-1-oxyl
2,2,6,6-Tetramethyl-4-piperidinol nitroxide
2,2,6,6-Tetramethyl-4-piperidinol N-oxyl
2,2,6,6-Tetramethyl-4-piperidinol 1-oxyl
2,2,6,6-Tetramethyl-4-piperidinol-1-oxy
2,2,6,6-Tetramethylpiperidine-N-oxyl-4-ol
4-Hydroxy-2,2,6,6-tetramethylpiperidine 1-oxyl
4-Hydroxy-2,2,6,6-tetramethylpiperidinooxy
4-Hydroxy-2,2,6,6-tetramethylpiperidinooxy radical
4-Hydroxy-2,2,6,6-tetramethylpiperidinooxyl
4-Oxypiperidol
4-Hydroxy-2,2,6,6-tetramethyl-1-piperidinyloxy
1-Oxyl-2,2,6,6-tetramethyl-4-piperidinol
2,2,6,6-Tetramethyl-4-piperindiol 1-oxyl
2,2,6,6-Tetramethylpiperidinol-4-oxyl-1
4-Hydroxy-2,2,6,-tetramethylpiperidyl-1-oxy
4-Hydroxy-2,2,6,-tetramethylpiperidyl-1-oxyl
4-Hydroxy-2,2,6,6-tetramethylpiperidine-N-oxy
4-Hydroxy-2,2,6,6-tetramethylpiperidinoxy
Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl-
2,2,6,6-Tetramethyl-4-piperidinol 1-oxide
4-Hydroxy-2,2,6,6-tetramethylpiperidine N-oxide
4-Hydroxy-2,2,6,6-tetramethylpiperidinoxyl
NR I
Nitroxyl 2

Inchi: InChI=1S/C9H18NO2/c1-8(2)5-7(11)6-9(3,4)10(8)12/h7,11H,5-6H2,1-4H3

InchiKey: UZFMOKQJFYMBGY-UHFFFAOYSA-N

Formula: C9H18NO2

SMILES: CC1(C)CC(O)CC(C)(C)N1[O]

Mol. weight [g/mol]: 172.24
CAS: 2226-96-2

Physical Properties

Property code	Value	Unit	Source
chs	-5721.40 ± 7.60	kJ/mol	NIST Webbook
hf	-291.20 ± 9.20	kJ/mol	NIST Webbook
hfs	-392.80 ± 7.60	kJ/mol	NIST Webbook
ie	7.40 ± 0.10	eV	NIST Webbook
log10ws	-6.53		Crippen Method
logp	1.346		Crippen Method
mcvol	146.380	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	101.50 ± 5.20	kJ/mol	305.50	NIST Webbook
hsubt	101.50 ± 1.60	kJ/mol	293.00	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=C2226962&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