4H-1,3-Oxazine, 5,6-dihydro-2,4,4,6-tetramethyl-

Other names: 2,4,4,6-Tetramethyl-4,5-dihydro-1,3-oxazine
5,6-Dihydro-2,4,4,6-tetramethyl-4H-1,3-oxazine
2,4,4,6-Tetramethyl-1-oxa-3-aza-2-cyclohexene
2,4,4,6-Tetramethyl-5,6-dihydro-4H-[1,3]oxazine

Inchi: InChI=1S/C8H15NO/c1-6-5-8(3,4)9-7(2)10-6/h6H,5H2,1-4H3

InchiKey: LZSGJOXDYPFFQB-UHFFFAOYSA-N

Formula: C8H15NO

SMILES: CC1=NC(C)(C)CC(C)O1

Mol. weight [g/mol]: 141.21

CAS: 26939-18-4

Physical Properties

Property code	Value	Unit	Source
gf	78.72	kJ/mol	Joback Method
hf	-173.95	kJ/mol	Joback Method
hfus	17.03	kJ/mol	Joback Method
hvap	44.05	kJ/mol	Joback Method
log10ws	-2.04		Crippen Method
logp	1.992		Crippen Method
mcvol	124.270	ml/mol	McGowan Method
pc	3243.03	kPa	Joback Method
tb	482.35	K	Joback Method
tc	707.21	K	Joback Method
tf	318.35	K	Joback Method
vc	0.469	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	290.98	J/mol×K	482.35	Joback Method
cpg	308.59	J/mol×K	519.83	Joback Method
cpg	325.13	J/mol×K	557.30	Joback Method
cpg	340.71	J/mol×K	594.78	Joback Method
cpg	355.41	J/mol×K	632.26	Joback Method

cpg	369.32	J/mol×K	669.74	Joback Method
cpg	382.52	J/mol×K	707.21	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C26939184&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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