Cyclooctanone, oxime

Inchi: InChI=1S/C8H15NO/c10-9-8-6-4-2-1-3-5-7-8/h10H,1-7H2
InchiKey: KTPUHSVFNHULJH-UHFFFAOYSA-N
Formula: C8H15NO
SMILES: ON=C1CCCCCCC1
Mol. weight [g/mol]: 141.21
CAS: 1074-51-7

Physical Properties

Property code	Value	Unit	Source
hf	-257.31	kJ/mol	Joback Method
hvap	55.31	kJ/mol	Joback Method
ie	8.80 ± 0.03	eV	NIST Webbook
log10ws	-1.88		Crippen Method
logp	2.561		Crippen Method
mcvol	124.270	ml/mol	McGowan Method
pc	3325.84	kPa	Joback Method
tb	586.54	K	Joback Method
tc	806.08	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1074517&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

hf: Enthalpy of formation at standard conditions
hvap: Enthalpy of vaporization at standard conditions

ie:	Ionization energy
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