2-Pentanone, 4-methyl-, oxime

Other names:	Methyl isobutyl ketoxime
	2-Methyl-4-pentanone oxime
	4-Methyl-2-pentanone oxime
	USAF am-4
	4-methylpentan-2-one oxime
Inchi:	InChI=1S/C6H13NO/c1-5(2)4-6(3)7-8/h5,8H,4H2,1-3H3
InchiKey:	ZKALVNREMFLWAN-UHFFFAOYSA-N
Formula:	C6H13NO
SMILES:	CC(CC(C)C)=NO
Mol. weight [g/mol]:	115.17
CAS:	105-44-2

Physical Properties

Property code	Value	Unit	Source
hf	-252.25	kJ/mol	Joback Method
hvap	48.64	kJ/mol	Joback Method
log10ws	-0.91		Crippen Method
logp	1.883		Crippen Method
mcvol	106.950	ml/mol	McGowan Method
pc	3107.10	kPa	Joback Method
rinpol	946.00		NIST Webbook
tb	504.98	K	Joback Method
tc	691.18	K	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C105442&Units=SI

Legend

hf:	Enthalpy of formation 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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature