2,4-Pentanedione dioxime

Other names:	Acetylacetone dioxime
	2,4-Pentanedione oxime
	2,4-Pentanedioxime
	pentane-2,4-dione dioxime
Inchi:	InChI=1S/C5H10N2O2/c1-4(6-8)3-5(2)7-9/h8-9H,3H2,1-2H3
InchiKey:	WBRYLZHYOFBTPD-UHFFFAOYSA-N
Formula:	C5H10N2O2
SMILES:	CC(CC(C)=NO)=NO
Mol. weight [g/mol]:	130.15
CAS:	2157-56-4

Physical Properties

Property code	Value	Unit	Source
hf	-306.13	kJ/mol	Joback Method
hvap	66.87	kJ/mol	Joback Method
log10ws	0.45		Crippen Method
logp	1.077		Crippen Method
mcvol	104.410	ml/mol	McGowan Method
pc	3403.91	kPa	Joback Method
tb	651.28	K	Joback Method
tc	844.15	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=C2157564&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature