Aldicarb sulfone

Other names:	Propanal, 2-methyl-2-(methylsulfonyl)-, O-[(methylamino)carbonyl]oxime Propionaldehyde, 2-methyl-2-(methylsulfonyl)-, O-(methylcarbamoyl)oxime Temik sulfone 2-Methyl-2-(methylsulfonyl)propionaldehyde O-(methylcarbamoyl)oxime Carbamic acid, methyl-, O-[[2-methyl-2-(methylsulfonyl)propylidene]amino] deriv. Aldoxycarb Sulfocarb Standak 2-methyl-2-(methylsulphonyl)propionaldehyde O-(methylcarbamoyl)oxime
Inchi:	InChI=1S/C7H14N2O4S/c1-7(2,14(4,11)12)5-9-13-6(10)8-3/h5H,1-4H3,(H,8,10)
InchiKey:	YRRKLBAKDXSTNC-UHFFFAOYSA-N
Formula:	C7H14N2O4S
SMILES:	CNC(=O)ON=CC(C)(C)S(C)(=O)=O
Mol. weight [g/mol]:	222.26
CAS:	1646-88-4

Physical Properties

Property code	Value	Unit	Source
hf	-759.02	kJ/mol	Joback Method
hvap	67.42	kJ/mol	Joback Method
log10ws	-0.88		Crippen Method
logp	0.151		Crippen Method
mcvol	160.680	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
tb	607.25	K	Joback Method
tc	808.41	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=C1646884&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