

Aldicarb sulfoxide

Other names:	Propanal, 2-methyl-2-(methylsulfinyl)-, O-[(methylamino)carbonyl]oxime Propionaldehyde, 2-methyl-2-(methylsulfinyl)-, O-(methylcarbamoyl)oxime Temik sulfoxide 2-Methyl-2-(methylsulfinyl)propionaldehyde O-(methylcarbamoyl)oxime 2-Methyl-2-(methylsulfinyl)propanal O-((methylamino)carbonyl)oxime Propanal, 2-methyl-2-(methylsulfinyl)-, O-[(methylamino)carbonyl]
Inchi:	InChI=1S/C7H14N2O3S/c1-7(2,13(4)11)5-9-12-6(10)8-3/h5H,1-4H3,(H,8,10)
InchiKey:	BXPMAGSOWXBZHS-UHFFFAOYSA-N
Formula:	C7H14N2O3S
SMILES:	CNC(=O)ON=CC(C)(C)S(C)=O
Mol. weight [g/mol]:	206.26
CAS:	1646-87-3

Physical Properties

Property code	Value	Unit	Source
hf	-511.41	kJ/mol	Joback Method
hvap	61.51	kJ/mol	Joback Method
log10ws	-0.68		Crippen Method
logp	0.485		Crippen Method
mcvol	154.810	ml/mol	McGowan Method
pc	2982.79	kPa	Joback Method
tb	617.75	K	Joback Method
tc	830.72	K	Joback Method

Sources

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=C1646873&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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