

Aldicarb

Other names:	2-Methyl-2-(Methylthio)propionaldehyde O-(methylcarbamoyl)oxime 2-Methyl-2-(methylthio)propanal, O-((methylamino)carbonyl)oxime 2-Methyl-2-methylthio-propionaldehyd-O-(N-methyl-carbamoyl)-oxime 2-Metil-2-tiometil-propionaldeid-O-(N-metil-carbamoil)-ossima Aldecarb Aldicarbe Ambush Carbamic acid, methyl-, O-((2-methyl-2-(methylthio)propylidene)amino) deriv. NSC 379586 OMS-771 Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime Propionaldehyde, 2-methyl-2-(methylthio)-, O-(methylcarbamoyl)oxime Temic Temik Temik 10 G Temik G 10 UC-21149
Inchi:	InChI=1S/C7H14N2O2S/c1-7(2,12-4)5-9-11-6(10)8-3/h5H,1-4H3,(H,8,10)
InchiKey:	QGLZXHRNAYXIBU-UHFFFAOYSA-N
Formula:	C7H14N2O2S
SMILES:	CNC(=O)ON=CC(C)(C)SC
Mol. weight [g/mol]:	190.26
CAS:	116-06-3

Physical Properties

Property code	Value	Unit	Source
hf	-263.80	kJ/mol	Joback Method
hvap	55.60	kJ/mol	Joback Method
log10ws	-0.71		Aqueous Solubility Prediction Method
logp	1.470		Crippen Method
mcvol	148.940	ml/mol	McGowan Method
pc	2770.08	kPa	Joback Method
tb	628.25	K	Joback Method
tc	853.95	K	Joback Method
tf	374.42 ± 0.20	K	NIST Webbook
tf	374.20 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	22.71	kJ/mol	374.00	NIST Webbook
hsubt	80.00	kJ/mol	310.50	NIST Webbook

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C116063&Units=SI>

Legend

hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsubt:	Enthalpy of sublimation at a given temperature
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
tf:	Normal melting (fusion) point

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