Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester

Othernames: Formohydroximic acid, (dimethylcarbamoyl)thio-, methyl ester
(Dimethylcarbamoyl)thioformohydroxamic acid, S-methyl ester
2-(Hydroxyimino)-N,N-dimethyl-2-(methylmercapto)acetamide
Methyl 2-(dimethylamino)-N-hydroxy-2-oxoethanimidothioate
Oxamyl oxime
Oximino oxamyl
methyl 2-(dimethylamino)-N-hydroxy-2-oxothioimidoacetate

Inchi: InChI=1S/C5H10N2O2S/c1-7(2)5(8)4(6-9)10-3/h9H,1-3H3

InchiKey: KIDWGGCIROEJJW-UHFFFAOYSA-N

Formula: C5H10N2O2S

SMILES: CSC(=NO)C(=O)N(C)C

Mol. weight [g/mol]: 162.21

CAS: 30558-43-1

Physical Properties

Property code	Value	Unit	Source
hf	-229.51	kJ/mol	Joback Method
hvap	62.40	kJ/mol	Joback Method
log10ws	0.54		Crippen Method
logp	0.225		Crippen Method
mcvol	120.760	ml/mol	McGowan Method
pc	3773.04	kPa	Joback Method
tb	617.63	K	Joback Method
tc	825.59	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=C30558431&Units=SI

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

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