Methomyl

Other names:

Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester
Acetimidic acid, N-[(methylcarbamoyl)oxy]thio-, methyl ester
Du Pont Insecticide 1179
Du Pont 1179
Insecticide 1179
IN 1179
Lannate
Mesomile
Methyl N-[(Methylcarbamoyl)oxy]thioacetimidate
Methyl O-(methylcarbamoyl)thiolacetohydroxamate
Methyl O-(methylcarbamyl)thiolacetohydroxamate
N-[(Methylcarbamoyl)oxy]thioacetimidic acid methyl ester
SD 14999
WL 18236
Acetimidic acid, thio-N-((methylcarbamoyl)oxy)-, methyl ester
Acetimidothioic acid, methyl-, N-(methylcarbamoyl) ester
ENT 27,341
Lannate L
N-(((Methylamino)carbonyl)oxy)ethanimidothioic acid methyl ester
Methyl N-(((methylamino)carbonyl)oxy)ethanimidothioate
S-Methyl N-(methylcarbamoyloxy)thioacetimidate
Methyl O-(methylcarbamoyl)thiolacethohydroxamate
2-Methylthio-acetaldehyd-O-(methylcarbamoyl)-oxime
Metomil
NU-Bait II
Nudrin
Rcra waste number P066
3-Thiabutan-2-one, O-(methylcarbamoyl)oxime
Flytek
Kipsin
Lan Bait
Lannate LB
Lannate(R)
Lanox
Lanox 216
Lanox 90
Memilene
Methomex
S-Methyl N-[[(methylamino)carbonyl]oxy]ethanimidothioate
5-Methyl N-(methylcarbamoyloxy)thioacetimidate

Inchi: InChI=1S/C5H10N2O2S/c1-4(10-3)7-9-5(8)6-2/h1-3H3,(H,6,8)
InchiKey: UHXUZOCRWCRNSJ-UHFFFAOYSA-N
Formula: C5H10N2O2S
SMILES: CNC(=O)ON=C(C)SC
Mol. weight [g/mol]: 162.21
CAS: 16752-77-5

Physical Properties

Property code	Value	Unit	Source
hf	-223.56	kJ/mol	Joback Method
hvap	52.53	kJ/mol	Joback Method
log10ws	-1.48		Crippen Method
logp	1.039		Crippen Method
mcvol	120.760	ml/mol	McGowan Method
pc	3372.36	kPa	Joback Method
rinpol	1530.00		NIST Webbook
rinpol	1534.00		NIST Webbook
rinpol	1500.00		NIST Webbook
rinpol	1500.00		NIST Webbook
rinpol	1540.00		NIST Webbook
tb	585.60	K	Joback Method
tc	810.32	K	Joback Method
tf	353.24 ± 0.20	K	NIST Webbook
tf	352.00 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	21.73	kJ/mol	352.70	NIST Webbook

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=C16752775&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion 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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point