

Phosmet

Other names:

Imidan
Fosmet
Phosphorodithioic acid, S-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl]
O,O-dimethyl ester
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with
N-(mercaptomethyl)phthalimide
Decemthion
Decemthion P-6
Ftalophos
N-(Mercaptomethyl)phthalimide S-(O,O-dimethyl) phosphorodithioate
O,O-Dimethyl S-(phthalimidomethyl)dithiophosphate
O,O-Dimethyl S-(phthalimidomethyl)phosphorodithioate
O,O-Dimethyl S-(N-phthalimidomethyl)dithiophosphate
Phthalophos
Prolate
PMP
PMP (Pesticide)
R 1504
Safidon
Smidan
Stauffer R 1504
Appa
(O,O-Dimethyl-phthalimidomethyl-dithiophosphate)
ENT 25,705
Kemolate
Percolate
Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-isoindol-2-yl)methyl)
O,O-dimethyl ester
Phthalimide, N-(mercaptomethyl)-, S-ester with O,O-dimethyl phosphorodithioate
Phthalimido O,O-dimethyl phosphorodithioate
Phthalimidomethyl O,O-dimethyl phosphorodithioate
Imidathion
Simidan

Inchi: InChI=1S/C11H12NO4PS2/c1-15-17(18,16-2)19-7-12-10(13)8-5-3-4-6-9(8)11(12)14/h3-6

InchiKey: LMNZTLDVJIUSHT-UHFFFAOYSA-N

Formula: C11H12NO3PS

SMILES: COP(=S)(OC)SCN1C(=O)c2ccccc2C1=O

Mol. weight [g/mol]: 269.26

CAS: 732-11-6

Physical Properties

Property code	Value	Unit	Source
log10ws	0.53		Crippen Method
logp	2.491		Crippen Method
mcvol	209.250	ml/mol	McGowan Method
rinpol	2375.00		NIST Webbook
rinpol	2466.00		NIST Webbook
rinpol	2452.00		NIST Webbook
tf	344.00 ± 0.20	K	NIST Webbook
tf	345.20 ± 0.10	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	26.96	kJ/mol	343.20	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C732116&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point

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