

Phosphoramidothioic acid, O,S-dimethyl ester

Other names: Methamidophos
Bayer 5546
Chevron 9006
Metamidophos
Monitor
O,S-Dimethyl phosphoramidothioate
O,S-Dimethyl phosphoramidothiolate
Ortho 9006
RE 9006
Tamaron
Acephate-met
BAY 71628
BAYER 71628
Chevron ortho 9006
O,S-Dimethyl ester of amidothiophosphoric acid
ENT 27,396
Hamidop
Metamidofos estrella
MTD
NSC 190987
Pillaron
SRA 5172
Tahmabon
Thiophosphorsaeure-O,S-dimethylesteramid
Filitox
Nitofol
Patrole
Tam
Tamanox
Methyl phosphoramidothioate ((MeO)(MeS)P(O)(NH₂))
Amidor
CKB 1220
Monitor (insecticide)
Ortho Monitor
Sniper
O,S-dimethyl phosphoroamidothioate

Inchi: InChI=1S/C2H8NO2PS/c1-5-6(3,4)7-2/h1-2H3,(H2,3,4)

InchiKey: NNVPIKMPQCWCG-UHFFFAOYSA-N

Formula: C₂H₈NOPS₂

SMILES: COP(N)(=O)SC

Mol. weight [g/mol]: 157.19
CAS: 10265-92-6

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.33		Crippen Method
logp	1.063		Crippen Method
mcvol	97.570	ml/mol	McGowan Method
rinpol	1230.00		NIST Webbook
rinpol	1228.00		NIST Webbook
rinpol	1241.00		NIST Webbook
rinpol	1245.00		NIST Webbook
rinpol	1228.00		NIST Webbook
rinpol	1204.00		NIST Webbook
rinpol	1204.00		NIST Webbook
rinpol	1228.00		NIST Webbook
rinpol	1211.00		NIST Webbook
tf	319.85 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	13.34	kJ/mol	316.80	NIST Webbook

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C10265926&Units=SI>

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
rinpola:	Non-polar retention indices
tf:	Normal melting (fusion) point

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