

Famphur

Other names:	Famophos
	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester
	Phosphorothioic acid, O,O-dimethyl ester, O-ester with p-hydroxy-N,N-dimethylbenzenesulfonamide
	American Cyanamid 38023
	CL 38023
	ENT 25,644
	Famfur
	Famphos
	O,O-Dimethyl O-[p-(Dimethylsulfamoyl)phenyl] phosphorothioate
	Warbex
	AC 38023
	American cyanamid CL-38,023
	Bo-ana
	O-(4-((Dimethylamino)sulfonyl)phenyl) O,O-dimethyl phosphorothioate
	O,O-Dimethyl O-(p-(N,N-dimethylsulfamoyl)phenyl) phosphorothioate
	O-4-Dimethylsulfamoylphenyl O,O-dimethyl phosphorothioate
	Dovip
	Famofos
	Famophos warbex
	Fanfos
	Rcra waste number P097
	Warbexol
	O,O-Dimethyl phosphorothioate O-ester with p-hydroxy-N,N-dimethylbenzenesulfonamide
	O-[4-[(dimethylamino)sulphonyl]phenyl] O,O-dimethyl thiophosphate
	O-[4-(dimethylamino)sulfonyl]phenyl] O,O-dimethylphosphorothionate
Inchi:	InChI=1S/C10H16NO5PS2/c1-11(2)19(12,13)10-7-5-9(6-8-10)16-17(18,14-3)15-4/h5-8H
InchiKey:	JISACBWYRJHSMG-UHFFFAOYSA-N
Formula:	C10H16NO4PS
SMILES:	COP(=S)(OC)Oc1ccc(S(=O)(=O)N(C)C)cc1
Mol. weight [g/mol]:	277.28
CAS:	52-85-7

Physical Properties

Property code	Value	Unit	Source
log10ws	1.89		Crippen Method
logp	1.833		Crippen Method

mcvol	220.490	ml/mol	McGowan Method
rinpol	2334.00		NIST Webbook
rinpol	2334.00		NIST Webbook
tf	328.72 ± 0.20	K	NIST Webbook
tf	330.00 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	26.50	kJ/mol	326.80	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=C52857&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
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point

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