

Oxydisulfoton

Other names:	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylsulfinyl)ethyl] ester Disulfoton disulide Disulfoton sulfoxide Disyston sulfoxide Ethylthiometon sulfoxide O,O-Diethyl S-(2-ethylthionylethyl) phosphorodithioate O O-Diethyl S-[2-(ethylsulphiny)ethyl] phosphorodithioate Phosphorodithioic acid, O,O-diethyl S-((ethylsulfinyl)ethyl) ester BAY 23323 DEPD O,O-Diethyl-S-((ethylsulfinyl)ethyl)phosphorodithioate O,O-Diethyl S-(2-(ethylsulfinyl)ethyl) phosphorodithioate Disyston S Disyston sulphoxide L 16/184 S 309
Inchi:	InChI=1S/C8H19O3PS3/c1-4-10-12(13,11-5-2)14-7-8-15(9)6-3/h4-8H2,1-3H3
InchiKey:	UPUGLJYNCXXUQV-UHFFFAOYSA-N
Formula:	C8H19O3PS3
SMILES:	CCOP(=S)(OCC)SCCS(=O)CC
Mol. weight [g/mol]:	290.40
CAS:	2497-07-6

Physical Properties

Property code	Value	Unit	Source
log10ws	1.88		Crippen Method
logp	2.786		Crippen Method
mcvol	210.700	ml/mol	McGowan Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2497076&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume

Latest version available from:

<https://www.chemeo.com/cid/26-012-9/Oxydisulfoton.pdf>

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