

Phosfolan

Other names:	Phosphoramidic acid, 1,3-dithiolan-2-ylidene-, diethyl ester Imidocarbonic acid, phosphonodithio-, cyclic ethylene P,P-diethyl ester (Diethoxyphosphinyl)dithioimidocarbonic acid cyclic ethylene ester American Cyanamide 47031 AC 47031 Cayolan Cyolane CL 47031 EI 47031 ENT 25,830 2-[(Diethoxyphosphinyl)Imino]-1,3-dithiolane American cyanamid 47031 American cyanamid ac 47,031 American cyanamid cl-47031 CI-47031 Cyalane Cyclic ethylene(diethoxyphosphinothioyl)dithioimidocarbonate Cyclic ethylene P,P-diethyl phosphonodithioimidocarbonate Cyolan Cyolane cylan Cyolane insecticide P,P-Diethyl cyclic ethylene ester of phosphonodithioimidocarbonic acid 1,2-Ethanedithiol, cyclic ester with P,P-diethyl phosphonodithioimidocarbonate 1,2-Ethanedithiol, cyclic S,S-ester with phosphonodithioimidocarbonic acid O,O-diethyl ester Imidocarbonic acid, (diethoxyphosphinyl)dithio-, cyclic ethylene ester Imidocarbonic acid, phosphonodithio-, O,O-diethyl cyclic ethylene ester OMS 646 Phosphoramidic acid, N-1,3-dithiolan-2-ylidene-, diethyl ester Phospholan
Inchi:	InChI=1S/C7H14NO3PS2/c1-3-10-12(9,11-4-2)8-7-13-5-6-14-7/h3-6H2,1-2H3
InchiKey:	ILBONRFLATCRE-UHFFFAOYSA-N
Formula:	C7H14NO3PS2
SMILES:	CCOP(=O)(N=C1SCCS1)OCC
Mol. weight [g/mol]:	255.29
CAS:	947-02-4

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.01		Crippen Method
logp	3.003		Crippen Method
mcvol	175.080	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C947024&Units=SI

Legend

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

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