

# Phosphorodichloridothioic acid, o-ethyl ester

**Other names:** O-ethyl dichlorothiophosphate  
**Inchi:** InChI=1S/C2H5Cl2OPS/c1-2-5-6(3,4)7/h2H2,1H3  
**InchiKey:** SMODMOZAUKBGGM-UHFFFAOYSA-N  
**Formula:** C2H5Cl2OPS  
**SMILES:** CCOP(=S)(Cl)Cl  
**Mol. weight [g/mol]:** 179.00  
**CAS:** 1498-64-2

## Physical Properties

Property code	Value	Unit	Source
ie	9.32 ± 0.03	eV	NIST Webbook
ie	9.81	eV	NIST Webbook
ie	9.81	eV	NIST Webbook
log10ws	1.69		Crippen Method
logp	2.725		Crippen Method
mcvol	106.200	ml/mol	McGowan Method

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](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=C1498642&Units=SI>

## Legend

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

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