

# Phosphine, diethyl-ethylthio-

**Inchi:** InChI=1S/C6H15PS/c1-4-7(5-2)8-6-3/h4-6H2,1-3H3  
**InchiKey:** ISOMITUSUCNQIY-UHFFFAOYSA-N  
**Formula:** C6H15PS  
**SMILES:** CCSP(CC)CC  
**Mol. weight [g/mol]:** 150.22  
**CAS:** 5745-32-4

## Physical Properties

Property code	Value	Unit	Source
ie	8.68	eV	NIST Webbook
ie	8.05	eV	NIST Webbook
ie	7.60	eV	NIST Webbook
ie	7.66 ± 0.02	eV	NIST Webbook
ie	8.38	eV	NIST Webbook
log10ws	0.94		Crippen Method
logp	3.176		Crippen Method
mcvol	132.210	ml/mol	McGowan Method

## Sources

**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=C5745324&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## 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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