

Phosphinic acid, diphenyl-

Other names:	Diphenylphosphinic acid Hydroxydiphenylphosphine oxide P,P-diphenylphosphinic acid
Inchi:	InChI=1S/C12H11O2P/c13-15(14,11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10H,(H,13,14)
InchiKey:	BEQVQKJCLJBTKZ-UHFFFAOYSA-N
Formula:	C12H11O2P
SMILES:	O=P(O)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	218.19
CAS:	1707-03-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-12.37		Crippen Method
logp	1.908		Crippen Method
mcvol	164.620	ml/mol	McGowan Method
tf	466.12	K	Solubilities of Diphenylphosphinic Acid in Selected Solvents

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	21.91	kJ/mol	466.10	NIST Webbook

Sources

- Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
- Solubilities of Diphenylphosphinic Acid in Selected Solvents:** <https://www.doi.org/10.1021/je800049b>
- McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>
- NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1707035&Units=SI>
- Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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
tf:	Normal melting (fusion) point

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