

# Pyridaphenthion oxon

**Inchi:** InChI=1S/C14H17N2O5P/c1-3-19-22(18,20-4-2)21-13-10-11-14(17)16(15-13)12-8-6-5-7  
**InchiKey:** MHICILHCOSRBTA-UHFFFAOYSA-N  
**Formula:** C14H17N2O5P  
**SMILES:** CCOP(=O)(OCC)Oc1ccc(=O)n(-c2ccccc2)n1  
**Mol. weight [g/mol]:** 324.27

## Physical Properties

Property code	Value	Unit	Source
log10ws	-5.13		Crippen Method
logp	2.792		Crippen Method
mcvol	230.370	ml/mol	McGowan Method
rinpola	2311.00		NIST Webbook

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R543761&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](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  
**rinpola:** Non-polar retention indices

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