

# Trinonyl phosphate

**Inchi:** InChI=1S/C27H57O4P/c1-4-7-10-13-16-19-22-25-29-32(28,30-26-23-20-17-14-11-8-5-2)  
**InchiKey:** ZOPCDOGRWDSSDQ-UHFFFAOYSA-N  
**Formula:** C27H57O4P  
**SMILES:** CCCCCCCCOP(=O)(CCCCCCCCCC)CCCCCCCCCC  
**Mol. weight [g/mol]:** 476.71

## Physical Properties

Property code	Value	Unit	Source
log10ws	-11.65		Crippen Method
logp	10.396		Crippen Method
mcvol	435.230	ml/mol	McGowan Method
rinsol	3029.00		NIST Webbook

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R146266&Units=SI>  
**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)

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**rinsol:** Non-polar retention indices

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