

# Dibutyl 4-methyl-phenyl phosphate

**Inchi:** InChI=1S/C15H25O4P/c1-4-6-12-17-20(16,18-13-7-5-2)19-15-10-8-14(3)9-11-15/h8-11H  
**InchiKey:** AXVQGNPTHCNQLJ-UHFFFAOYSA-N  
**Formula:** C15H25O4P  
**SMILES:** CCCCOP(=O)(OCCCC)Oc1ccc(C)cc1  
**Mol. weight [g/mol]:** 300.33

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| log10ws       | -6.44   |        | Crippen Method |
| logp          | 5.115   |        | Crippen Method |
| mcvol         | 242.390 | ml/mol | McGowan Method |
| rinpol        | 2047.00 |        | NIST Webbook   |
| rinpol        | 2047.00 |        | NIST Webbook   |
| ripol         | 2630.00 |        | NIST Webbook   |
| ripol         | 2630.00 |        | NIST Webbook   |

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R168895&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)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

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

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