

# 4-Tert-butylphenyl bis(2-methylphenyl) phosphate

**Inchi:** InChI=1S/C24H27O4P/c1-18-10-6-8-12-22(18)27-29(25,28-23-13-9-7-11-19(23)2)26-21-  
**InchiKey:** UTVBYAZNJDVSV-UHFFFAOYSA-N  
**Formula:** C24H27O4P  
**SMILES:** Cc1ccccc1OP(=O)(Oc1ccc(C(C)(C)C)cc1)Oc1ccccc1C  
**Mol. weight [g/mol]:** 410.44  
**CAS:** 116402-07-4

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| log10ws       | -9.40   |        | Crippen Method |
| logp          | 7.246   |        | Crippen Method |
| mcvol         | 321.680 | ml/mol | McGowan Method |

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C116402074&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.cheméo.com/doc/models/crippen\\_log10ws](https://www.cheméo.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

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