

# Phosphonic diamide, n,n'-bis (2,4-dimethylphenyl)

**Inchi:** InChI=1S/C16H21N2OP/c1-11-5-7-15(13(3)9-11)17-20(19)18-16-8-6-12(2)10-14(16)4/h5  
**InchiKey:** ONCGYSGWBKOUCE-UHFFFAOYSA-N  
**Formula:** C16H21N2OP  
**SMILES:** Cc1ccc(N[PH](=O)Nc2ccc(C)cc2C)c(C)c1  
**Mol. weight [g/mol]:** 288.32  
**CAS:** 116401-83-3

## Physical Properties

Property code	Value	Unit	Source
log10ws	-6.67		Crippen Method
logp	4.834		Crippen Method
mvol	235.070	ml/mol	McGowan Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C116401833&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  
**mvol:** McGowan's characteristic volume

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