# Phosphonic diamide, n,n'-bis (p-dimethylaniline)

**Inchi:** InChI=1S/C16H23N4OP/c1-19(2)15-9-5-13(6-10-15)17-22(21)18-14-7-11-16(12-8-14)20(

**InchiKey:** XTWUDTRGWHGKLC-UHFFFAOYSA-N

**Formula:** C16H23N4OP

**SMILES:** CN(C)c1ccc(N=[PH](O)Nc2ccc(N(C)C)cc2)cc1

**Mol. weight [g/mol]:** 318.35

**CAS:** 116401-82-2

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -0.06 | | Crippen Method |
| logp | 3.782 | | Crippen Method |
| mcvol | 255.030 | ml/mol | McGowan Method |

## Sources

**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C116401822&Units=SI

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

## Legend

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume