

# Diphenyl-2,4-uretidinedione

<b>Other names:</b>	N,N'-Diphenyluretidine-2,4-dione N,N'-Diphenyluretidione Phenyl isocyanate dimer 1,3-Diazetidone-2,4-dione, 1,3-diphenyl- 1,3-Diphenyl-2,4-dioxodiazetidone 1,3-Diphenyl-2,4-uretidinedione 2,4-Uretidinedione, 1,3-diphenyl- 1,3-Diazetidone, N,N'-diphenyl- 1,3-Diazetidone, 2,4-dioxo-1,3-diphenyl-
<b>Inchi:</b>	InChI=1S/C14H10N2O2/c17-13-15(11-7-3-1-4-8-11)14(18)16(13)12-9-5-2-6-10-12/h1-10
<b>InchiKey:</b>	ZDIXQAFFNKGCNG-UHFFFAOYSA-N
<b>Formula:</b>	C14H10N2O2
<b>SMILES:</b>	O=C1N(c2ccccc2)C(=O)N1c1ccccc1
<b>Mol. weight [g/mol]:</b>	238.24
<b>CAS:</b>	1025-36-1

## Physical Properties

Property code	Value	Unit	Source
log10ws	-3.50		Crippen Method
logp	3.253		Crippen Method
mcvol	172.840	ml/mol	McGowan Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1025361&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1025361&amp;Units=SI</a>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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