

# 5,5-Diphenylhydantoin, 3-pentafluoropropionyl-

<b>Inchi:</b>	InChI=1S/C18H11F5N2O3/c19-17(20,18(21,22)23)14(27)25-13(26)16(24-15(25)28,11-7
<b>InchiKey:</b>	BGMDFPLWEKSBKG-UHFFFAOYSA-N
<b>Formula:</b>	C18H11F5N2O3
<b>SMILES:</b>	O=C1NC(c2ccccc2)(c2ccccc2)C(=O)N1C(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	398.28

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.77		Crippen Method
logp	3.206		Crippen Method
mcvol	239.620	ml/mol	McGowan Method
rinsol	2184.00		NIST Webbook

## Sources

<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=U374834&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374834&amp;Units=SI</a>
<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>

## Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>rinsol:</b>	Non-polar retention indices

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