

# 1-([1,1'-biphenyl]-4-yl(phenyl)methyl)-1H-imidazole

<b>Other names:</b>	bifonazole
<b>Inchi:</b>	InChI=1S/C22H18N2/c1-3-7-18(8-4-1)19-11-13-21(14-12-19)22(24-16-15-23-17-24)20-9
<b>InchiKey:</b>	OCAPBUJLXMYKEJ-UHFFFAOYSA-N
<b>Formula:</b>	C22H18N2
<b>SMILES:</b>	<chem>c1ccc(-c2ccc(C(c3ccccc3)n3ccnc3)cc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	310.40

## Physical Properties

Property code	Value	Unit	Source
hfus	37.50	kJ/mol	Solubility and pKa of select pharmaceuticals in water, ethanol, and 1-octanol
log10ws	-7.08		Crippen Method
logp	5.188		Crippen Method
mvol	250.060	ml/mol	McGowan Method
tf	423.00	K	Solubility and pKa of select pharmaceuticals in water, ethanol, and 1-octanol

## Sources

Solubility and pKa of select pharmaceuticals in water, ethanol, and 1-octanol  
McGowan Method:

<https://www.doi.org/10.1016/j.jct.2010.07.001>

Crippen Method:

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307I>

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

**tf:** Normal melting (fusion) point

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