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

Other names: bifonazole
Inchi: 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-
InchiKey: OCAPBUJLXMYKEJ-UHFFFAOYSA-N
Formula: C22H18N2
SMILES: c1ccc(-c2ccc(C(c3ccccc3)n3ccnc3)cc2)cc1
Mol. weight [g/mol]: 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
mcvol	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: https://www.doi.org/10.1016/j.jct.2010.07.001
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

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

mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point