1,10-Phenanthroline, 4,7-diphenyl-

Other names:	4,7-Diphenyl-1,10-diazaphenanthrene
	Bathophenanthroline
	4,7-Diphenyl-1,10-phenanthroline
Inchi:	InChI=1S/C24H16N2/c1-3-7-17(8-4-1)19-13-15-25-23-21(19)11-12-22-20(14-16-26-24(2
InchiKey:	DHDHJYNTEFLIHY-UHFFFAOYSA-N
Formula:	C24H16N2
SMILES:	c1ccc(-c2ccnc3c2ccc2c(-c4ccccc4)ccnc23)cc1
Mol. weight [g/mol]:	332.40
CAS:	1662-01-7

Physical Properties

Property code	Value	Unit	Source
log10ws	-9.82		Crippen Method
logp	6.117		Crippen Method
mcvol	258.780	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C1662017&Units=SI

Legend

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