9H-Carbazole, 9-phenyl-

Other names:	Carbazole, 9-phenyl-
	N-Phenylcarbazole
	9-Phenylcarbazole
	Carbazol, 9-phenyl
Inchi:	InChI=1S/C18H13N/c1-2-8-14(9-3-1)19-17-12-6-4-10-15(17)16-11-5-7-13-18(16)19/h1-1
InchiKey:	VIJYEGDOKCKUOL-UHFFFAOYSA-N
Formula:	C18H13N
SMILES:	c1ccc(-n2c3ccccc3c3ccccc32)cc1
Mol. weight [g/mol]:	243.30
CAS:	1150-62-5

Physical Properties

Property code	Value	Unit	Source
ie	7.70 ± 0.10	eV	NIST Webbook
log10ws	-6.73		Crippen Method
logp	4.784		Crippen Method
mcvol	192.320	ml/mol	McGowan Method
rinpol	382.09		NIST Webbook
rinpol	377.06		NIST Webbook
rinpol	381.51		NIST Webbook
rinpol	377.06		NIST Webbook
rinpol	381.51		NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1150625&Units=SI
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

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices