7H-Dibenzo[c,g]carbazole

Other names:	3,4:5,6-Dibenzocarbazole
	7-Aza-7H-dibenzo[c,g]fluorene
	3,4,5,6-Dibenzcarbazol
	3,4,5,6-Dibenzcarbazole
	3,4,5,6-Dibenzocarbazole
	7H-DB(c,g)C
	NSC 87519
	Dibenzo(c,g)carbazole
Inchi:	InChI=1S/C20H13N/c1-3-7-15-13(5-1)9-11-17-19(15)20-16-8-4-2-6-14(16)10-12-18(20)2
InchiKey:	STJXCDGCXVZHDU-UHFFFAOYSA-N
Formula:	C20H13N
SMILES:	c1ccc2c(c1)ccc1[nH]c3ccc4ccccc4c3c12
Mol. weight [g/mol]:	267.32
CAS:	194-59-2

Physical Properties

Property code	Value	Unit	Source
ie	7.10 ± 0.10	eV	NIST Webbook
log10ws	-7.91		Crippen Method
logp	5.146		Crippen Method
mcvol	205.340	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	20.10	kJ/mol	429.80	NIST Webbook

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=C194592&Units=SI

Legend

hfust: Enthalpy of fusion at a given temperature

ie: Ionization energy

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume