1,3-Diphenyltetrazene

Inchi: InChI=1S/C12H12N4/c13-16(12-9-5-2-6-10-12)15-14-11-7-3-1-4-8-11/h1-10H,13H2/b15-

InchiKey: CTTNRYAHFBTLMZ-PFONDFGASA-N

Formula: C12H12N4

SMILES: NN(N=Nc1ccccc1)c1ccccc1

Mol. weight [g/mol]: 212.25

CAS: 35364-31-9

Physical Properties

Property code	Value	Unit	Source
chs	-6848.90 ± 1.60	kJ/mol	NIST Webbook
hf	330.59	kJ/mol	Joback Method
hfs	411.70	kJ/mol	NIST Webbook
hvap	66.21	kJ/mol	Joback Method
log10ws	-3.43		Crippen Method
logp	3.066		Crippen Method
mcvol	168.040	ml/mol	McGowan Method
pc	2726.86	kPa	Joback Method
tb	761.49	K	Joback Method
tc	1031.03	K	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C35364319&Units=SI

Legend

chs: Standard solid enthalpy of combustion

hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature