Diazene, [1,1'-biphenyl]-4-ylphenyl-

Other names:	Azobenzene, 4-phenyl- 4-(Phenylazo)biphenyl 4-Phenylazodiphenyl
Inchi:	InChI=1S/C18H14N2/c1-3-7-15(8-4-1)16-11-13-18(14-12-16)20-19-17-9-5-2-6-10-17/h1-
InchiKey:	SPKVCOASFOEAMJ-UHFFFAOYSA-N
Formula:	C18H14N2
SMILES:	c1ccc(N=Nc2ccc(-c3ccccc3)cc2)cc1
Mol. weight [g/mol]:	258.32
CAS:	7466-42-4

Physical Properties

Property code	Value	Unit	Source
hf	330.49	kJ/mol	Joback Method
hvap	69.82	kJ/mol	Joback Method
log10ws	-6.12		Crippen Method
logp	5.769		Crippen Method
mcvol	208.860	ml/mol	McGowan Method
pc	2010.90	kPa	Joback Method
tb	845.46	K	Joback Method
tc	1128.08	K	Joback Method

Sources

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=C7466424&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hf:	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