Diazene, (4-chlorophenyl)phenyl-, (E)-

Other names:	Azobenzene, 4-chloro-, (E)-
	p-Chloro-trans-azobenzene
Inchi:	InChI=1S/C12H9ClN2/c13-10-6-8-12(9-7-10)15-14-11-4-2-1-3-5-11/h1-9H
InchiKey:	NJFDMENHTAYHMA-UHFFFAOYSA-N
Formula:	C12H9ClN2
SMILES:	Clc1ccc(N=Nc2ccccc2)cc1
Mol. weight [g/mol]:	216.67
CAS:	6141-95-3

Physical Properties

Property code	Value	Unit	Source
hf	202.06	kJ/mol	Joback Method
hvap	58.58	kJ/mol	Joback Method
ie	8.55 ± 0.05	eV	NIST Webbook
log10ws	-4.20		Crippen Method
logp	4.755		Crippen Method
mcvol	160.320	ml/mol	McGowan Method
pc	2445.89	kPa	Joback Method
tb	718.93	K	Joback Method
tc	992.71	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6141953&Units=SI
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

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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