Diazene, bis(pentafluorophenyl)-

Other names:	Azobenzene, decafluoro- Decafluoroazobenzene
Inchi:	InChI=1S/C12F10N2/c13-1-3(15)7(19)11(8(20)4(1)16)23-24-12-9(21)5(17)2(14)6(18)10(
InchiKey:	JLMLUOQMPDZUFW-UHFFFAOYSA-N
Formula:	C12F10N2
SMILES:	Fc1c(F)c(F)c(N=Nc2c(F)c(F)c(F)c(F)c2F)c(F)c1F
Mol. weight [g/mol]:	362.13
CAS:	2285-06-5

Physical Properties

Property code	Value	Unit	Source
hf	-1846.53	kJ/mol	Joback Method
hvap	51.98	kJ/mol	Joback Method
ie	9.40	eV	NIST Webbook
log10ws	-6.83		Crippen Method
logp	5.493		Crippen Method
mcvol	165.780	ml/mol	McGowan Method
pc	1514.03	kPa	Joback Method
tb	719.02	K	Joback Method
tc	904.84	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=C2285065&Units=SI

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