Diazene, (4-methoxyphenyl)phenyl-

Other names:	Azobenzene, 4-methoxy-
	p-Methoxyazobenzene
	4-Methoxyazobenzene
	p-Phenylazoanisole
	Anisole, p-(phenylazo)-
Inchi:	InChI=1S/C13H12N2O/c1-16-13-9-7-12(8-10-13)15-14-11-5-3-2-4-6-11/h2-10H,1H3
InchiKey:	LGCRPKOHRIXSEG-UHFFFAOYSA-N
Formula:	C13H12N2O
SMILES:	COc1ccc(N=Nc2ccccc2)cc1
Mol. weight [g/mol]:	212.25
CAS:	2396-60-3

Physical Properties

Property code	Value	Unit	Source
chs	-7014.50	kJ/mol	NIST Webbook
hf	64.94	kJ/mol	Joback Method
hfs	184.00	kJ/mol	NIST Webbook
hvap	58.83	kJ/mol	Joback Method
log10ws	-3.63		Crippen Method
logp	4.111		Crippen Method
mcvol	168.040	ml/mol	McGowan Method
pc	2271.90	kPa	Joback Method
tb	613.20	K	NIST Webbook
tc	987.22	K	Joback Method

Sources

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=C2396603&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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