

Diazeno, bis(4-methoxyphenyl)-

Other names:	Azobenzene, 4,4'-dimethoxy- 4,4'-Azodianisole 4,4'-Dimethoxyazobenzene Azo-bis-(4-methoxybenzene)
Inchi:	InChI=1S/C14H14N2O2/c1-17-13-7-3-11(4-8-13)15-16-12-5-9-14(18-2)10-6-12/h3-10H,1
InchiKey:	ICHNIWWYEHETFJ-UHFFFAOYSA-N
Formula:	C14H14N2O2
SMILES:	COc1ccc(N=Nc2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	242.27
CAS:	501-58-6

Physical Properties

Property code	Value	Unit	Source
chs	-7554.20	kJ/mol	NIST Webbook
hf	-99.39	kJ/mol	Joback Method
hfs	44.40	kJ/mol	NIST Webbook
hvap	64.12	kJ/mol	Joback Method
ie	7.72	eV	NIST Webbook
log10ws	-3.75		Crippen Method
logp	4.119		Crippen Method
mcvol	188.000	ml/mol	McGowan Method
pc	2018.13	kPa	Joback Method
tb	777.08	K	Joback Method
tc	1028.09	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=C501586&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
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

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