2,5-Dimethyl-4'-methoxyazobenzene

Inchi: InChI=1S/C15H16N2O/c1-11-4-5-12(2)15(10-11)17-16-13-6-8-14(18-3)9-7-13/h4-10H,1-

InchiKey: LUPLQCHWPCDOAA-WUKNDPDISA-N

Formula: C15H16N2O

SMILES: COc1ccc(N=Nc2cc(C)ccc2C)cc1

Mol. weight [g/mol]: 240.30

CAS: 88578-22-7

Physical Properties

Property code	Value	Unit	Source
chs	-8734.14	kJ/mol	NIST Webbook
hf	0.72	kJ/mol	Joback Method
hfs	544.76	kJ/mol	NIST Webbook
hvap	64.60	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	4.727		Crippen Method
mcvol	196.220	ml/mol	McGowan Method
pc	1857.91	kPa	Joback Method
tb	782.52	K	Joback Method
tc	1033.01	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=C88578227&Units=SI

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