3,5-Dimethyl-4-benzyloxyazobenzene

Inchi: InChI=1S/C21H20N2O/c1-16-12-17(2)14-20(13-16)23-22-19-8-10-21(11-9-19)24-15-18-6
InchiKey: PEKFOXIPLDGONJ-GHVJWSGMSA-N
Formula: C21H20N2O
SMILES: Cc1cc(C)cc(N=Nc2ccc(OCc3ccccc3)cc2)c1
Mol. weight [g/mol]: 316.40
CAS: 119121-11-8

Physical Properties

Property code	Value	Unit	Source
chs	-11461.90	kJ/mol	NIST Webbook
hf	113.41	kJ/mol	Joback Method
hfs	340.00	kJ/mol	NIST Webbook
hvap	80.23	kJ/mol	Joback Method
log10ws	-6.69		Crippen Method
logp	6.298		Crippen Method
mcvol	257.000	ml/mol	McGowan Method
pc	1519.94	kPa	Joback Method
tb	946.48	K	Joback Method
tc	1208.52	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C119121118&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

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