2,5-Dimethyl-3'-chloro-4'-benzyloxyazobenzene

Inchi: InChI=1S/C21H19ClN2O/c1-15-8-9-16(2)20(12-15)24-23-18-10-11-21(19(22)13-18)25-14
InchiKey: ZHWXDQUWFAYKTM-WCWDXBQESA-N
Formula: C21H19ClN2O
SMILES: Cc1ccc(C)c(N=Nc2ccc(OCc3ccccc3)c(Cl)c2)c1
Mol. weight [g/mol]: 350.84
CAS: 88578-27-2

Physical Properties

Property code	Value	Unit	Source
hf	86.20	kJ/mol	Joback Method
hvap	85.28	kJ/mol	Joback Method
log10ws	-7.38		Crippen Method
logp	6.951		Crippen Method
mcvol	269.240	ml/mol	McGowan Method
pc	1460.13	kPa	Joback Method
tb	988.89	K	Joback Method
tc	1253.37	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C88578272&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

hf: 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