2-Methyl-4-chloro-4'-benzyloxyazobenzene

Inchi: InChI=1S/C20H17ClN2O/c1-15-13-17(21)7-12-20(15)23-22-18-8-10-19(11-9-18)24-14-16
InchiKey: FWCCXBYEEBZCOY-GHVJWSGMSA-N
Formula: C20H17ClN2O
SMILES: Cc1cc(Cl)ccc1N=Nc1ccc(OCc2ccccc2)cc1
Mol. weight [g/mol]: 336.81
CAS: 88578-28-3

Physical Properties

Property code	Value	Unit	Source
hf	118.31	kJ/mol	Joback Method
hvap	82.39	kJ/mol	Joback Method
log10ws	-6.90		Crippen Method
logp	6.643		Crippen Method
mcvol	255.150	ml/mol	McGowan Method
pc	1592.35	kPa	Joback Method
tb	961.03	K	Joback Method
tc	1229.19	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=C88578283&Units=SI

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