2-Methyl-4-chloro-3'-formyl-4'-benzyloxyazobenze

Inchi: InChI=1S/C21H17ClN2O2/c1-15-11-18(22)7-9-20(15)24-23-19-8-10-21(17(12-19)13-25)2
InchiKey: GLIYUOMUDCHZIF-WCWDXBQESA-N
Formula: C21H17ClN2O2
SMILES: Cc1cc(Cl)ccc1N=Nc1ccc(OCc2ccccc2)c(C=O)c1
Mol. weight [g/mol]: 364.82
CAS: 87730-60-7

Physical Properties

Property code	Value	Unit	Source
hf	0.62	kJ/mol	Joback Method
hvap	92.00	kJ/mol	Joback Method
log10ws	-7.14		Crippen Method
logp	6.455		Crippen Method
mcvol	270.810	ml/mol	McGowan Method
pc	1546.35	kPa	Joback Method
tb	1037.55	K	Joback Method
tc	1302.87	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C87730607&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