4-Methyl-3'-formyl-4'-benzyloxyazobenzene

Inchi: InChI=1S/C21H18N2O2/c1-16-7-9-19(10-8-16)22-23-20-11-12-21(18(13-20)14-24)25-15
InchiKey: KZFQUMZOUTZXLB-GHVJWSGMSA-N
Formula: C21H18N2O2
SMILES: Cc1ccc(N=Nc2ccc(OCc3ccccc3)c(C=O)c2)cc1
Mol. weight [g/mol]: 330.38
CAS: 87730-62-9

Physical Properties

Property code	Value	Unit	Source
chs	-11230.40	kJ/mol	NIST Webbook
hf	27.83	kJ/mol	Joback Method
hfs	394.10	kJ/mol	NIST Webbook
hvap	86.95	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	5.802		Crippen Method
mcvol	258.570	ml/mol	McGowan Method
pc	1611.58	kPa	Joback Method
tb	995.14	K	Joback Method
tc	1257.55	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=C87730629&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