

4-Ethoxy-3'-sec-butyl-4'-benzyloxyazobenzene

Inchi:	InChI=1S/C25H28N2O2/c1-4-19(3)24-17-22(27-26-21-11-14-23(15-12-21)28-5-2)13-16-2
InchiKey:	WFQPPLZCYSVFNG-CYYJNZCTSA-N
Formula:	C25H28N2O2
SMILES:	CCOc1ccc(N=Nc2ccc(OCc3ccccc3)c(C(C)CC)c2)cc1
Mol. weight [g/mol]:	388.50
CAS:	88108-44-5

Physical Properties

Property code	Value	Unit	Source
chs	-13982.80	kJ/mol	NIST Webbook
hf	-106.65	kJ/mol	Joback Method
hfs	143.30	kJ/mol	NIST Webbook
hvap	91.16	kJ/mol	Joback Method
log10ws	-7.88		Crippen Method
logp	7.593		Crippen Method
mcvol	319.230	ml/mol	McGowan Method
pc	1142.89	kPa	Joback Method
tb	1059.98	K	Joback Method
tc	1313.25	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C88108445&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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