4-n-Pentanoyl-4-n'-ethanoyloxyazobenzene

Inchi: InChI=1S/C19H20N2O3/c1-3-4-5-19(23)15-6-8-16(9-7-15)20-21-17-10-12-18(13-11-17)2
InchiKey: MOYHDIQWGYIORV-QZQOTICOSA-N
Formula: C19H20N2O3
SMILES: CCCCC(=O)c1ccc(N=Nc2ccc(OC(C)=O)cc2)cc1
Mol. weight [g/mol]: 324.37
CAS: 120102-96-7

Physical Properties

Property code	Value	Unit	Source
hf	-295.53	kJ/mol	Joback Method
hvap	86.34	kJ/mol	Joback Method
log10ws	-5.74		Crippen Method
logp	5.400		Crippen Method
mcvol	255.720	ml/mol	McGowan Method
pc	1522.31	kPa	Joback Method
tb	976.80	K	Joback Method
tc	1221.54	K	Joback Method

Sources

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=C120102967&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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