4-n-Pentanoyl-4-n'-heptanoyloxyazobenzene

Inchi: InChI=1S/C24H30N2O3/c1-3-5-7-8-10-24(28)29-22-17-15-21(16-18-22)26-25-20-13-11-1
InchiKey: SEMLNMILGNZRBH-OCEACIFDSA-N
Formula: C24H30N2O3
SMILES: CCCCCCC(=O)Oc1ccc(N=Nc2ccc(C(=O)CCCC)cc2)cc1
Mol. weight [g/mol]: 394.51
CAS: 120103-00-6

Physical Properties

Property code	Value	Unit	Source
hf	-398.73	kJ/mol	Joback Method
hvap	97.47	kJ/mol	Joback Method
log10ws	-7.83		Crippen Method
logp	7.351		Crippen Method
mcvol	326.170	ml/mol	McGowan Method
pc	1079.93	kPa	Joback Method
tb	1091.20	K	Joback Method
tc	1338.12	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C120103006&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