4-n-Pentanoyl-4-n'-hexadecanoyloxyazobenzene

Inchi: InChI=1S/C33H48N2O3/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-19-33(37)38-31-26-24-30
InchiKey: CNCOEFKXXCAARK-XAHDOWKMSA-N
Formula: C33H48N2O3
SMILES: CCCCCCCCCCCCCCCC(=O)Oc1ccc(N=Nc2ccc(C(=O)CCCC)cc2)cc1
Mol. weight [g/mol]: 520.75
CAS: 120103-09-5

Physical Properties

Property code	Value	Unit	Source
hf	-584.49	kJ/mol	Joback Method
hvap	117.50	kJ/mol	Joback Method
log10ws	-11.60		Crippen Method
logp	10.862		Crippen Method
mcvol	452.980	ml/mol	McGowan Method
pc	655.11	kPa	Joback Method
tb	1297.12	K	Joback Method
tc	1623.52	K	Joback Method

Sources

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=C120103095&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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