

4-n-Pentanoyl-4-n'-decanoyloxyazobenzene

Inchi:	InChI=1S/C27H36N2O3/c1-3-5-7-8-9-10-11-13-27(31)32-25-20-18-24(19-21-25)29-28-23
InchiKey:	NRZWTVDAZMMIMS-ZQHSETAFSA-N
Formula:	C27H36N2O3
SMILES:	CCCCCCCCC(=O)Oc1ccc(N=Nc2ccc(C(=O)CCCC)cc2)cc1
Mol. weight [g/mol]:	436.59
CAS:	120103-03-9

Physical Properties

Property code	Value	Unit	Source
hf	-460.65	kJ/mol	Joback Method
hvap	104.14	kJ/mol	Joback Method
log10ws	-9.09		Crippen Method
logp	8.521		Crippen Method
mcvol	368.440	ml/mol	McGowan Method
pc	901.26	kPa	Joback Method
tb	1159.84	K	Joback Method
tc	1420.68	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C120103039&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

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

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