4-Propionyl-4'-n-tetradecanoyloxyazobenzene

Inchi: InChI=1S/C29H40N2O3/c1-3-5-6-7-8-9-10-11-12-13-14-15-29(33)34-27-22-20-26(21-23-
InchiKey: UTWIVNFBCFQBLR-NVQSTNCTSA-N
Formula: C29H40N2O3
SMILES: CCCCCCCCCCCCCC(=O)Oc1ccc(N=Nc2ccc(C(=O)CC)cc2)cc1
Mol. weight [g/mol]: 464.64
CAS: 76204-58-5

Physical Properties

Property code	Value	Unit	Source
hf	-501.93	kJ/mol	Joback Method
hvap	108.60	kJ/mol	Joback Method
log10ws	-9.93		Crippen Method
logp	9.301		Crippen Method
mcvol	396.620	ml/mol	McGowan Method
pc	805.70	kPa	Joback Method
tb	1205.60	K	Joback Method
tc	1482.10	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	45.90	kJ/mol	375.65	NIST Webbook

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C76204585&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
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