

# 4-Propionyl-4'-n-heptadecanoyloxyazobenzene

<b>Inchi:</b>	InChI=1S/C32H46N2O3/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-32(36)37-30-25-23
<b>InchiKey:</b>	VRFWDWVCSYKDIU-JEIPZWNWSA-N
<b>Formula:</b>	C32H46N2O3
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(=O)Oc1ccc(N=Nc2ccc(C(=O)CC)cc2)cc1
<b>Mol. weight [g/mol]:</b>	506.72
<b>CAS:</b>	76204-55-2

## Physical Properties

Property code	Value	Unit	Source
hf	-563.85	kJ/mol	Joback Method
hvac	115.27	kJ/mol	Joback Method
log10ws	-11.18		Crippen Method
logp	10.471		Crippen Method
mccvol	438.890	ml/mol	McGowan Method
pc	688.53	kPa	Joback Method
tb	1274.24	K	Joback Method
tc	1585.57	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	58.74	kJ/mol	379.65	NIST Webbook
sfust	154.70	J/molxK	379.65	NIST Webbook

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C76204552&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C76204552&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

# Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>sfust:</b>	Entropy of fusion at a given temperature
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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