

# 4-Propionyl-4'-n-decanoyloxyazobenzene

<b>Inchi:</b>	InChI=1S/C25H32N2O3/c1-3-5-6-7-8-9-10-11-25(29)30-23-18-16-22(17-19-23)27-26-21
<b>InchiKey:</b>	BOTGDHGTCFZQBZ-CYYJNZCTSA-N
<b>Formula:</b>	C25H32N2O3
<b>SMILES:</b>	CCCCCCCCC(=O)Oc1ccc(N=Nc2ccc(C(=O)CC)cc2)cc1
<b>Mol. weight [g/mol]:</b>	408.53
<b>CAS:</b>	76204-62-1

## Physical Properties

Property code	Value	Unit	Source
hf	-419.37	kJ/mol	Joback Method
hvap	99.69	kJ/mol	Joback Method
log10ws	-8.25		Crippen Method
logp	7.741		Crippen Method
mcvol	340.260	ml/mol	McGowan Method
pc	1014.89	kPa	Joback Method
tb	1114.08	K	Joback Method
tc	1364.46	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	32.93	kJ/mol	371.15	NIST Webbook
sfust	88.72	J/molxK	371.15	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=C76204621&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C76204621&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hvac:</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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