

# 4-n-Pentanoyl-4-n'-hexanoyloxyazobenzene

<b>Inchi:</b>	InChI=1S/C23H28N2O3/c1-3-5-7-9-23(27)28-21-16-14-20(15-17-21)25-24-19-12-10-18(
<b>InchiKey:</b>	NDZAITBGXOSPTF-OCOZRVBESA-N
<b>Formula:</b>	C23H28N2O3
<b>SMILES:</b>	CCCCC(=O)Oc1ccc(N=Nc2ccc(C(=O)CCCC)cc2)cc1
<b>Mol. weight [g/mol]:</b>	380.48
<b>CAS:</b>	120102-99-0

## Physical Properties

Property code	Value	Unit	Source
hf	-378.09	kJ/mol	Joback Method
hvap	95.24	kJ/mol	Joback Method
log10ws	-7.42		Crippen Method
logp	6.961		Crippen Method
mcvol	312.080	ml/mol	McGowan Method
pc	1151.44	kPa	Joback Method
tb	1068.32	K	Joback Method
tc	1312.86	K	Joback Method

## Sources

<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>
<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=C120102990&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C120102990&amp;Units=SI</a>

## Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

Latest version available from:

<https://www.chemeo.com/cid/47-471-7/4-n-Pentanoyl-4-n-hexanoyloxyazobenzene.pdf>

Generated by Cheméo on 2024-04-26 20:34:51.36310728 +0000 UTC m=+16452940.283684592.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.