

# 4-n-Pentanoyl-4-n'-tridecanoyloxyazobenzene

**Inchi:** InChI=1S/C30H42N2O3/c1-3-5-7-8-9-10-11-12-13-14-16-30(34)35-28-23-21-27(22-24-28)  
**InchiKey:** HQUVVWDXDXUDLI-QNEJGDQOSA-N  
**Formula:** C30H42N2O3  
**SMILES:** CCCCCCCCCCCC(=O)Oc1ccc(N=Nc2ccc(C(=O)CCCC)cc2)cc1  
**Mol. weight [g/mol]:** 478.67  
**CAS:** 120103-06-2

## Physical Properties

Property code	Value	Unit	Source
hf	-522.57	kJ/mol	Joback Method
hvac	110.82	kJ/mol	Joback Method
log10ws	-10.35		Crippen Method
logp	9.691		Crippen Method
mccvol	410.710	ml/mol	McGowan Method
pc	763.52	kPa	Joback Method
tb	1228.48	K	Joback Method
tc	1514.97	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C120103062&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/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  
**hvac:** Enthalpy of vaporization at standard conditions  
**log10ws:** 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

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