# 4-n-Pentanoyl-4-n'-octanoyloxyazobenzene

**Inchi:** InChI=1S/C25H32N2O3/c1-3-5-7-8-9-11-25(29)30-23-18-16-22(17-19-23)27-26-21-14-12
**InchiKey:** SIIBFBDEHWHOOX-CYYJNZCTSA-N
**Formula:** C25H32N2O3
**SMILES:** CCCCCCCC(=O)Oc1ccc(N=Nc2ccc(C(=O)CCCC)cc2)cc1
**Mol. weight [g/mol]:** 408.53
**CAS:** 120103-01-7

## 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 |

## 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=C120103017&Units=SI

## Legend

**hf:** Enthalpy of formation at standard conditions
**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 |