

# Fentanyl, 4-N-decyl analogue

**Inchi:** InChI=1S/C24H40N2O/c1-3-5-6-7-8-9-10-14-19-25-20-17-23(18-21-25)26(24(27)4-2)22-  
**InchiKey:** ZVVBZVXZRBYMIC-UHFFFAOYSA-N  
**Formula:** C24H40N2O  
**SMILES:** CCCCCCCCCCN1CCC(N(C(=O)CC)c2ccccc2)CC1  
**Mol. weight [g/mol]:** 372.59

## Physical Properties

Property code	Value	Unit	Source
log10ws	-6.43		Crippen Method
logp	6.035		Crippen Method
mcvol	335.930	ml/mol	McGowan Method
rmpol	2870.00		NIST Webbook
rmpol	2873.00		NIST Webbook
rmpol	2849.00		NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R637519&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.chemo.com/doc/models/crippen\\_log10ws](https://www.chemo.com/doc/models/crippen_log10ws)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**rmpol:** Non-polar retention indices

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