

# Acetyl 4'-fluorofentanyl

**Inchi:** InChI=1S/C21H25FN2O/c1-17(25)24(20-9-7-19(22)8-10-20)21-12-15-23(16-13-21)14-11  
**InchiKey:** OXKSBDHHJOPFAH-UHFFFAOYSA-N  
**Formula:** C<sub>21</sub>H<sub>25</sub>FN<sub>2</sub>O  
**SMILES:** CC(=O)N(c1ccc(F)cc1)C1CCN(CCc2ccccc2)CC1  
**Mol. weight [g/mol]:** 340.43

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.61		Crippen Method
logp	3.886		Crippen Method
mcvol	271.670	ml/mol	McGowan Method
rinpole	2715.00		NIST Webbook
rinpole	2715.00		NIST Webbook

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R193123&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.cheméo.com/doc/models/crippen\\_log10ws](https://www.cheméo.com/doc/models/crippen_log10ws)

## Legend

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

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