

Fentanyl, 4-N-butyl analogue

Inchi: InChI=1S/C18H28N2O/c1-3-5-13-19-14-11-17(12-15-19)20(18(21)4-2)16-9-7-6-8-10-16/
InchiKey: JSAWGYPPDVJYIV-UHFFFAOYSA-N
Formula: C18H28N2O
SMILES: CCCC1CCC(N(C(=O)CC)c2ccccc2)CC1
Mol. weight [g/mol]: 288.43

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.92		Crippen Method
logp	3.694		Crippen Method
mcvol	251.390	ml/mol	McGowan Method
rinpola	2258.00		NIST Webbook

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=R637504&Units=SI>

Legend

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

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<https://www.chemeo.com/cid/99-567-4/Fentanyl-4-N-butyl-analogue.pdf>

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