

Propanamide, N-phenyl-N-[1-(phenylmethyl)-4-piperidinyl]-

Other names:	Propanamide, N-Phenyl-N-(1-benzyl-4-piperidinyl)- Fentanyl methyl analog Desmethylfentanyl Benzylfentanyl N-Benzylfentanyl N-(1-benzylpiperidin-4-yl)-N-phenylpropionamide
Inchi:	InChI=1S/C21H26N2O/c1-2-21(24)23(19-11-7-4-8-12-19)20-13-15-22(16-14-20)17-18-9
InchiKey:	POQDXIFVWVZVML-UHFFFAOYSA-N
Formula:	C21H26N2O
SMILES:	CCC(=O)N(c1ccccc1)C1CCN(Cc2ccccc2)CC1
Mol. weight [g/mol]:	322.44
CAS:	1474-02-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.77		Crippen Method
logp	4.094		Crippen Method
mcvol	269.900	ml/mol	McGowan Method
rinpol	2660.00		NIST Webbook
rinpol	2690.00		NIST Webbook
rinpol	2697.00		NIST Webbook
rinpol	2697.00		NIST Webbook
rinpol	2694.00		NIST Webbook
rinpol	2693.00		NIST Webbook
rinpol	2699.00		NIST Webbook
rinpol	2682.00		NIST Webbook
rinpol	2690.00		NIST Webbook
rinpol	2699.00		NIST Webbook
rinpol	2660.00		NIST Webbook
rinpol	2692.00		NIST Webbook

Sources

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1474028&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

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

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