

Hydromorphone

Other names:	Morphinan-6-one, 4,5-epoxy-3-hydroxy-17-methyl-, (5«alpha»)- Morphinan-6-one, 4,5«alpha»-epoxy-3-hydroxy-17-methyl- (-)-Hydromorphone Dihydromorphinone DiMo Hydromorphon Morphinone, dihydro- Dihydromorfinon 4,5«alpha»-Epoxy-3-hydroxy-17-methylmorphinan-6-one Dimorphone Novolaudon NSC 19046 Hymorphan Laudicon Paramorphan Dilaudid
Inchi:	InChI=1S/C17H19NO3/c1-18-7-6-17-10-3-5-13(20)16(17)21-15-12(19)4-2-9(14(15)17)8-
InchiKey:	WVLOADHCBXTIJK-UHFFFAOYSA-N
Formula:	C17H19NO3
SMILES:	CN1CCC23c4c5ccc(O)c4OC2C(=O)CCC3C1C5
Mol. weight [g/mol]:	285.34
CAS:	466-99-9

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.34		Crippen Method
logp	1.630		Crippen Method
mcvol	206.480	ml/mol	McGowan Method
rinpol	2472.00		NIST Webbook
rinpol	2460.00		NIST Webbook
rinpol	2467.00		NIST Webbook

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
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=C466999&Units=SI>

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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<https://www.chemeo.com/cid/34-019-3/Hydromorphone.pdf>

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