

Hydrocodone

Other names:	Morphinan-6-one, 4,5-epoxy-3-methoxy-17-methyl-, (5«alpha»)- Morphinan-6-one, 4,5«alpha»-epoxy-3-methoxy-17-methyl- Bekadid DICO Dicodid Dihydrocodeinone Codeinone, dihydro- Hydrocone 4,5«alpha»-Epoxy-3-methoxy-17-methylmorphinan-6-one 4aH-8,9c-Iminoethanophenanthro(4,5-bcd)furan-5-(6H)-one, 7,7a,8,9-tetrahydro-3-methoxy-12-methyl- 6-Oxo-3-methoxy-N-methyl-4,5-epoxymorphinan Multacodin (-)-Dihydrocodeinone 6-Oxo-7,8-dihydrocodeine Hydrocodon NSC 19044 Dihydromorphinone, 3-O-methyl-
Inchi:	InChI=1S/C18H21NO3/c1-19-8-7-18-11-4-5-13(20)17(18)22-16-14(21-2)6-3-10(15(16)18
InchiKey:	LLPOLZWFYMWNVKH-UHFFFAOYSA-N
Formula:	C18H21NO3
SMILES:	COc1ccc2c3c1OC1C(=O)CCC4C(C2)N(C)CCC314
Mol. weight [g/mol]:	299.36
CAS:	125-29-1

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.91		Crippen Method
logp	1.933		Crippen Method
mcvol	220.570	ml/mol	McGowan Method
rinpol	2411.00		NIST Webbook
rinpol	2401.00		NIST Webbook
rinpol	2390.00		NIST Webbook
rinpol	2440.00		NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C125291&Units=SI
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

Legend

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

Latest version available from:

<https://www.chemeo.com/cid/26-213-6/Hydrocodone.pdf>

Generated by Cheméo on 2025-12-20 04:00:26.842100881 +0000 UTC m=+5951424.372141535.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.