

# Norhydrocodone

<b>Inchi:</b>	InChI=1S/C17H19NO3/c1-20-13-5-2-9-8-11-10-3-4-12(19)16-17(10,6-7-18-11)14(9)15(1
<b>InchiKey:</b>	JGORUXKMRLIJSV-UHFFFAOYSA-N
<b>Formula:</b>	C17H19NO3
<b>SMILES:</b>	COc1ccc2c3c1OC1C(=O)CCC4C(C2)NCCC314
<b>Mol. weight [g/mol]:</b>	285.34
<b>CAS:</b>	5083-62-5

## Physical Properties

Property code	Value	Unit	Source
gf	187.29	kJ/mol	Joback Method
hf	-249.76	kJ/mol	Joback Method
hfus	37.17	kJ/mol	Joback Method
hvap	74.12	kJ/mol	Joback Method
log10ws	-3.11		Crippen Method
logp	1.591		Crippen Method
mcvol	206.480	ml/mol	McGowan Method
pc	2589.85	kPa	Joback Method
rinpol	2569.50		NIST Webbook
rinpol	2569.50		NIST Webbook
tb	822.92	K	Joback Method
tc	1081.21	K	Joback Method
tf	663.04	K	Joback Method
vc	0.788	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	683.33	J/molxK	822.92	Joback Method
cpg	702.94	J/molxK	865.97	Joback Method
cpg	722.25	J/molxK	909.02	Joback Method
cpg	741.54	J/molxK	952.06	Joback Method
cpg	761.13	J/molxK	995.11	Joback Method
cpg	781.30	J/molxK	1038.16	Joback Method
cpg	802.36	J/molxK	1081.21	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5083625&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5083625&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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