

# Cyclohexyl 2-deoxy-3,4,6-tri-O-methyl-2-(N-methylacetamido)

**Inchi:** InChI=1S/C18H33NO6/c1-12(20)19(2)15-17(23-5)16(22-4)14(11-21-3)25-18(15)24-13-9

**InchiKey:** VHHBUELNGTZTNP-JCECYMMASA-N

**Formula:** C18H33NO6

**SMILES:** COCC1OC(OC2CCCCC2)C(N(C)C(C)=O)C(OC)C1OC

**Mol. weight [g/mol]:** 359.46

## Physical Properties

Property code	Value	Unit	Source
gf	-405.52	kJ/mol	Joback Method
hf	-1093.50	kJ/mol	Joback Method
hfus	47.68	kJ/mol	Joback Method
hvap	78.22	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	1.584		Crippen Method
mvol	283.660	ml/mol	McGowan Method
pc	1388.15	kPa	Joback Method
rinpol	2284.16		NIST Webbook
rinpol	2284.16		NIST Webbook
tb	814.60	K	Joback Method
tc	1021.11	K	Joback Method
tf	488.31	K	Joback Method
vc	1.022	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	971.91	J/mol×K	814.60	Joback Method
cpg	993.27	J/mol×K	849.02	Joback Method
cpg	1012.81	J/mol×K	883.44	Joback Method
cpg	1030.53	J/mol×K	917.85	Joback Method
cpg	1046.41	J/mol×K	952.27	Joback Method
cpg	1060.41	J/mol×K	986.69	Joback Method
cpg	1072.52	J/mol×K	1021.11	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=R496303&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R496303&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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