

# Cyclopentanecarboxamide, N-butyl-N-octyl-

<b>Inchi:</b>	InChI=1S/C18H35NO/c1-3-5-7-8-9-12-16-19(15-6-4-2)18(20)17-13-10-11-14-17/h17H,3-
<b>InchiKey:</b>	ZKJYOXQFGQPZAF-UHFFFAOYSA-N
<b>Formula:</b>	C18H35NO
<b>SMILES:</b>	CCCCCCCCN(CCCC)C(=O)C1CCCC1
<b>Mol. weight [g/mol]:</b>	281.48

## Physical Properties

Property code	Value	Unit	Source
gf	119.09	kJ/mol	Joback Method
hf	-399.42	kJ/mol	Joback Method
hfus	40.93	kJ/mol	Joback Method
hvap	64.71	kJ/mol	Joback Method
log10ws	-5.36		Crippen Method
logp	5.166		Crippen Method
mvol	265.170	ml/mol	McGowan Method
pc	1366.68	kPa	Joback Method
rinpol	2714.00		NIST Webbook
rinpol	2714.00		NIST Webbook
tb	692.83	K	Joback Method
tc	875.03	K	Joback Method
tf	385.92	K	Joback Method
vc	1.008	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	793.05	J/mol×K	692.83	Joback Method
cpg	813.77	J/mol×K	723.20	Joback Method
cpg	833.42	J/mol×K	753.56	Joback Method
cpg	852.02	J/mol×K	783.93	Joback Method
cpg	869.62	J/mol×K	814.30	Joback Method
cpg	886.28	J/mol×K	844.66	Joback Method
cpg	902.03	J/mol×K	875.03	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U415633&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415633&amp;Units=SI</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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