

# Cyclopentanecarboxamide, N-butyl-N-heptyl-

<b>Inchi:</b>	InChI=1S/C17H33NO/c1-3-5-7-8-11-15-18(14-6-4-2)17(19)16-12-9-10-13-16/h16H,3-15H
<b>InchiKey:</b>	HUAAAYLLDQKPEQI-UHFFFAOYSA-N
<b>Formula:</b>	C17H33NO
<b>SMILES:</b>	CCCCCCCN(CCCC)C(=O)C1CCCC1
<b>Mol. weight [g/mol]:</b>	267.45

## Physical Properties

Property code	Value	Unit	Source
gf	110.67	kJ/mol	Joback Method
hf	-378.78	kJ/mol	Joback Method
hfus	38.34	kJ/mol	Joback Method
hvap	62.48	kJ/mol	Joback Method
log10ws	-4.94		Crippen Method
logp	4.776		Crippen Method
mvol	251.080	ml/mol	McGowan Method
pc	1469.10	kPa	Joback Method
rinpol	2550.00		NIST Webbook
rinpol	2550.00		NIST Webbook
tb	669.95	K	Joback Method
tc	852.96	K	Joback Method
tf	374.65	K	Joback Method
vc	0.953	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	734.78	J/mol×K	669.95	Joback Method
cpg	755.32	J/mol×K	700.45	Joback Method
cpg	774.78	J/mol×K	730.95	Joback Method
cpg	793.21	J/mol×K	761.45	Joback Method
cpg	810.65	J/mol×K	791.96	Joback Method
cpg	827.14	J/mol×K	822.46	Joback Method
cpg	842.74	J/mol×K	852.96	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415632&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415632&amp;Units=SI</a>
<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.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>

# 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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