

# Cyclopentanecarboxamide, N-butyl-N-tetradecyl-

Inchi:	InChI=1S/C24H47NO/c1-3-5-7-8-9-10-11-12-13-14-15-18-22-25(21-6-4-2)24(26)23-19-1
InchiKey:	DNMXHDFODJQXGW-UHFFFAOYSA-N
Formula:	C24H47NO
SMILES:	CCCCCCCCCCCCCN(CCCC)C(=O)C1CCCC1
Mol. weight [g/mol]:	365.64

## Physical Properties

Property code	Value	Unit	Source
gf	169.61	kJ/mol	Joback Method
hf	-523.26	kJ/mol	Joback Method
hfus	56.47	kJ/mol	Joback Method
hvap	78.06	kJ/mol	Joback Method
log10ws	-7.87		Crippen Method
logp	7.506		Crippen Method
mvol	349.710	ml/mol	McGowan Method
pc	928.94	kPa	Joback Method
rinpol	1616.00		NIST Webbook
rinpol	1616.00		NIST Webbook
tb	830.11	K	Joback Method
tc	1018.79	K	Joback Method
tf	453.54	K	Joback Method
vc	1.345	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1162.05	J/mol×K	830.11	Joback Method
cpg	1184.16	J/mol×K	861.56	Joback Method
cpg	1205.06	J/mol×K	893.00	Joback Method
cpg	1224.80	J/mol×K	924.45	Joback Method
cpg	1243.44	J/mol×K	955.90	Joback Method
cpg	1261.05	J/mol×K	987.34	Joback Method
cpg	1277.69	J/mol×K	1018.79	Joback Method

# Sources

<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=U415638&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415638&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>
<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>

# 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>h vap:</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>r in pol:</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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