

# Cyclobutanecarboxamide, N,N-diheptyl-

<b>Inchi:</b>	InChI=1S/C19H37NO/c1-3-5-7-9-11-16-20(17-12-10-8-6-4-2)19(21)18-14-13-15-18/h18H
<b>InchiKey:</b>	UYEUNIFMFPCGDT-UHFFFAOYSA-N
<b>Formula:</b>	C19H37NO
<b>SMILES:</b>	CCCCCCCN(CCCCCC)C(=O)C1CCC1
<b>Mol. weight [g/mol]:</b>	295.50

## Physical Properties

Property code	Value	Unit	Source
gf	139.61	kJ/mol	Joback Method
hf	-413.90	kJ/mol	Joback Method
hfus	45.62	kJ/mol	Joback Method
hvap	66.76	kJ/mol	Joback Method
log10ws	-5.77		Crippen Method
logp	5.556		Crippen Method
mcvol	279.260	ml/mol	McGowan Method
pc	1252.15	kPa	Joback Method
rinqol	2117.00		NIST Webbook
tb	711.44	K	Joback Method
tc	889.52	K	Joback Method
tf	400.71	K	Joback Method
vc	1.073	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	848.54	J/molxK	711.44	Joback Method
cpg	868.88	J/molxK	741.12	Joback Method
cpg	888.19	J/molxK	770.80	Joback Method
cpg	906.52	J/molxK	800.48	Joback Method
cpg	923.93	J/molxK	830.16	Joback Method
cpg	940.46	J/molxK	859.84	Joback Method
cpg	956.16	J/molxK	889.52	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308601&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308601&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>hvap:</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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