

# Propanamide, N,N-diheptyl-2,2-dimethyl-

<b>Inchi:</b>	InChI=1S/C19H39NO/c1-6-8-10-12-14-16-20(18(21)19(3,4)5)17-15-13-11-9-7-2/h6-17H2
<b>InchiKey:</b>	WMFVDRIGDVTEIA-UHFFFAOYSA-N
<b>Formula:</b>	C19H39NO
<b>SMILES:</b>	CCCCCCCN(CCCCCC)C(=O)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	297.52

## Physical Properties

Property code	Value	Unit	Source
gf	93.80	kJ/mol	Joback Method
hf	-489.29	kJ/mol	Joback Method
hfus	42.17	kJ/mol	Joback Method
hvap	65.38	kJ/mol	Joback Method
log10ws	-5.88		Crippen Method
logp	5.802		Crippen Method
mcvol	290.120	ml/mol	McGowan Method
pc	1139.80	kPa	Joback Method
rinqol	2009.00		NIST Webbook
tb	697.20	K	Joback Method
tc	869.84	K	Joback Method
tf	388.71	K	Joback Method
vc	1.113	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	860.35	J/molxK	697.20	Joback Method
cpg	880.32	J/molxK	725.97	Joback Method
cpg	899.32	J/molxK	754.75	Joback Method
cpg	917.39	J/molxK	783.52	Joback Method
cpg	934.57	J/molxK	812.29	Joback Method
cpg	950.91	J/molxK	841.06	Joback Method
cpg	966.46	J/molxK	869.84	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.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=U308128&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308128&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>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

Latest version available from:

<https://www.chemeo.com/cid/37-383-6/Propanamide-N-N-diheptyl-2-2-dimethyl.pdf>

Generated by Cheméo on 2024-05-04 15:02:28.024428752 +0000 UTC m=+17124196.945006068.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.