

# Propanamide, N-decyl-N-methyl-2-methyl-

<b>Inchi:</b>	InChI=1S/C15H31NO/c1-5-6-7-8-9-10-11-12-13-16(4)15(17)14(2)3/h14H,5-13H2,1-4H3
<b>InchiKey:</b>	NLIUSBDBPJBZECK-UHFFFAOYSA-N
<b>Formula:</b>	C15H31NO
<b>SMILES:</b>	CCCCCCCCCN(C)C(=O)C(C)C
<b>Mol. weight [g/mol]:</b>	241.41

## Physical Properties

Property code	Value	Unit	Source
gf	54.84	kJ/mol	Joback Method
hf	-403.26	kJ/mol	Joback Method
hfus	35.70	kJ/mol	Joback Method
hvap	57.38	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	4.242		Crippen Method
mcvol	233.760	ml/mol	McGowan Method
pc	1491.89	kPa	Joback Method
rinsol	1788.00		NIST Webbook
tb	608.47	K	Joback Method
tc	777.41	K	Joback Method
tf	326.21	K	Joback Method
vc	0.893	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	630.33	J/molxK	608.47	Joback Method
cpg	648.64	J/molxK	636.63	Joback Method
cpg	666.13	J/molxK	664.78	Joback Method
cpg	682.83	J/molxK	692.94	Joback Method
cpg	698.76	J/molxK	721.09	Joback Method
cpg	713.96	J/molxK	749.25	Joback Method
cpg	728.43	J/molxK	777.41	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=U308083&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308083&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>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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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