

# Octanamide, N-decyl-N-methyl-

<b>Inchi:</b>	InChI=1S/C19H39NO/c1-4-6-8-10-11-12-14-16-18-20(3)19(21)17-15-13-9-7-5-2/h4-18H2
<b>InchiKey:</b>	IQSUPCSHRXCXHC-UHFFFAOYSA-N
<b>Formula:</b>	C19H39NO
<b>SMILES:</b>	CCCCCCCCCN(C)C(=O)CCCCCCC
<b>Mol. weight [g/mol]:</b>	297.52

## Physical Properties

Property code	Value	Unit	Source
gf	90.96	kJ/mol	Joback Method
hf	-480.54	kJ/mol	Joback Method
hfus	49.59	kJ/mol	Joback Method
hvap	66.68	kJ/mol	Joback Method
log10ws	-6.12		Crippen Method
logp	5.946		Crippen Method
mvol	290.120	ml/mol	McGowan Method
pc	1125.32	kPa	Joback Method
rinpol	2234.00		NIST Webbook
rinpol	2234.00		NIST Webbook
tb	700.43	K	Joback Method
tc	868.54	K	Joback Method
tf	386.29	K	Joback Method
vc	1.123	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	858.55	J/mol×K	700.43	Joback Method
cpg	878.17	J/mol×K	728.45	Joback Method
cpg	896.89	J/mol×K	756.47	Joback Method
cpg	914.75	J/mol×K	784.49	Joback Method
cpg	931.77	J/mol×K	812.50	Joback Method
cpg	947.99	J/mol×K	840.52	Joback Method
cpg	963.44	J/mol×K	868.54	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308442&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308442&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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