

# Propanamide, 3-phenyl-N-ethyl-N-octyl-

<b>Inchi:</b>	InChI=1S/C19H31NO/c1-3-5-6-7-8-12-17-20(4-2)19(21)16-15-18-13-10-9-11-14-18/h9-1
<b>InchiKey:</b>	SXHMLFFFKQLOOA-UHFFFAOYSA-N
<b>Formula:</b>	C19H31NO
<b>SMILES:</b>	CCCCCCCCN(CC)C(=O)CCc1ccccc1
<b>Mol. weight [g/mol]:</b>	289.46

## Physical Properties

Property code	Value	Unit	Source
gf	203.37	kJ/mol	Joback Method
hf	-244.01	kJ/mol	Joback Method
hfus	43.63	kJ/mol	Joback Method
hvap	68.95	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	4.828		Crippen Method
mvol	266.360	ml/mol	McGowan Method
pc	1423.99	kPa	Joback Method
rinpol	2479.00		NIST Webbook
rinpol	2479.00		NIST Webbook
tb	727.11	K	Joback Method
tc	917.20	K	Joback Method
tf	412.71	K	Joback Method
vc	1.016	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	779.27	J/molxK	727.11	Joback Method
cpg	797.79	J/molxK	758.79	Joback Method
cpg	815.27	J/molxK	790.47	Joback Method
cpg	831.74	J/molxK	822.15	Joback Method
cpg	847.26	J/molxK	853.84	Joback Method
cpg	861.89	J/molxK	885.52	Joback Method
cpg	875.67	J/molxK	917.20	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=U415399&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415399&amp;Units=SI</a>
<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.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>

# 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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