

# Propanamide, N,N-dihexyl-3-phenyl-

<b>Inchi:</b>	InChI=1S/C21H35NO/c1-3-5-7-12-18-22(19-13-8-6-4-2)21(23)17-16-20-14-10-9-11-15-2
<b>InchiKey:</b>	DWWGRGZSSZIIPB-UHFFFAOYSA-N
<b>Formula:</b>	C21H35NO
<b>SMILES:</b>	CCCCCN(CCCCC)C(=O)CCc1ccccc1
<b>Mol. weight [g/mol]:</b>	317.51

## Physical Properties

Property code	Value	Unit	Source
gf	220.21	kJ/mol	Joback Method
hf	-285.29	kJ/mol	Joback Method
hfus	48.81	kJ/mol	Joback Method
hvap	73.41	kJ/mol	Joback Method
log10ws	-6.06		Crippen Method
logp	5.608		Crippen Method
mcvol	294.540	ml/mol	McGowan Method
pc	1238.09	kPa	Joback Method
rinqol	2369.00		NIST Webbook
tb	772.87	K	Joback Method
tc	962.42	K	Joback Method
tf	435.25	K	Joback Method
vc	1.127	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	896.71	J/mol×K	772.87	Joback Method
cpg	915.67	J/mol×K	804.46	Joback Method
cpg	933.55	J/mol×K	836.05	Joback Method
cpg	950.42	J/mol×K	867.65	Joback Method
cpg	966.33	J/mol×K	899.24	Joback Method
cpg	981.32	J/mol×K	930.83	Joback Method
cpg	995.47	J/mol×K	962.42	Joback Method

# Sources

<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=U308214&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308214&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>

# 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>hvac:</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>mccol:</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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