

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

<b>Inchi:</b>	InChI=1S/C23H39NO/c1-3-5-6-7-8-9-10-11-12-16-21-24(4-2)23(25)20-19-22-17-14-13-1
<b>InchiKey:</b>	RYAMYFMNZGUIRE-UHFFFAOYSA-N
<b>Formula:</b>	C23H39NO
<b>SMILES:</b>	CCCCCCCCCCCCN(CC)C(=O)CCc1ccccc1
<b>Mol. weight [g/mol]:</b>	345.56

## Physical Properties

Property code	Value	Unit	Source
gf	237.05	kJ/mol	Joback Method
hf	-326.57	kJ/mol	Joback Method
hfus	53.99	kJ/mol	Joback Method
hvap	77.86	kJ/mol	Joback Method
log10ws	-6.90		Crippen Method
logp	6.389		Crippen Method
mvol	322.720	ml/mol	McGowan Method
pc	1086.35	kPa	Joback Method
rinpol	3104.00		NIST Webbook
rinpol	3104.00		NIST Webbook
tb	818.63	K	Joback Method
tc	1010.05	K	Joback Method
tf	457.79	K	Joback Method
vc	1.240	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1017.68	J/mol×K	818.63	Joback Method
cpg	1037.13	J/mol×K	850.53	Joback Method
cpg	1055.46	J/mol×K	882.44	Joback Method
cpg	1072.74	J/mol×K	914.34	Joback Method
cpg	1089.04	J/mol×K	946.24	Joback Method
cpg	1104.42	J/mol×K	978.15	Joback Method
cpg	1118.92	J/mol×K	1010.05	Joback Method

# Sources

<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=U415403&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415403&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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