

# Propanamide, 2-methyl-N-ethyl-N-hexadecyl-

<b>Inchi:</b>	InChI=1S/C22H45NO/c1-5-7-8-9-10-11-12-13-14-15-16-17-18-19-20-23(6-2)22(24)21(3)
<b>InchiKey:</b>	LPLUGKAAAVUWLA-UHFFFAOYSA-N
<b>Formula:</b>	C22H45NO
<b>SMILES:</b>	CCCCCCCCCCCCCCCCN(CC)C(=O)C(C)C
<b>Mol. weight [g/mol]:</b>	339.60

## Physical Properties

Property code	Value	Unit	Source
gf	113.78	kJ/mol	Joback Method
hf	-547.74	kJ/mol	Joback Method
hfus	53.83	kJ/mol	Joback Method
hvap	72.97	kJ/mol	Joback Method
log10ws	-7.14		Crippen Method
logp	6.972		Crippen Method
mvol	332.390	ml/mol	McGowan Method
pc	940.37	kPa	Joback Method
rinpol	1800.00		NIST Webbook
rinpol	1800.00		NIST Webbook
tb	768.63	K	Joback Method
tc	944.19	K	Joback Method
tf	405.10	K	Joback Method
vc	1.286	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1041.63	J/mol×K	768.63	Joback Method
cpg	1062.65	J/mol×K	797.89	Joback Method
cpg	1082.65	J/mol×K	827.15	Joback Method
cpg	1101.65	J/mol×K	856.41	Joback Method
cpg	1119.70	J/mol×K	885.67	Joback Method
cpg	1136.84	J/mol×K	914.93	Joback Method
cpg	1153.12	J/mol×K	944.19	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=U415352&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415352&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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

Latest version available from:

<https://www.cheméo.com/cid/84-410-3/Propanamide-2-methyl-N-ethyl-N-hexadecyl.pdf>

Generated by Cheméo on 2024-04-29 11:40:20.16156315 +0000 UTC m=+16680069.082140462.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.