

# N-(n-propyl)-dodecanamide

<b>Inchi:</b>	InChI=1S/C15H31NO/c1-3-5-6-7-8-9-10-11-12-13-15(17)16-14-4-2/h3-14H2,1-2H3,(H,16
<b>InchiKey:</b>	AUYWNLPGKFYZFF-UHFFFAOYSA-N
<b>Formula:</b>	C15H31NO
<b>SMILES:</b>	CCCCCCCCCCCC(=O)NCCC
<b>Mol. weight [g/mol]:</b>	241.41
<b>CAS:</b>	110790-31-3

## Physical Properties

Property code	Value	Unit	Source
gf	35.89	kJ/mol	Joback Method
hf	-412.04	kJ/mol	Joback Method
hfus	41.30	kJ/mol	Joback Method
hvap	62.17	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.434		Crippen Method
mcvol	233.760	ml/mol	McGowan Method
pc	1499.99	kPa	Joback Method
tb	646.64	K	Joback Method
tc	817.28	K	Joback Method
tf	361.40	K	Joback Method
vc	0.916	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	652.39	J/molxK	646.64	Joback Method
cpg	669.78	J/molxK	675.08	Joback Method
cpg	686.40	J/molxK	703.52	Joback Method
cpg	702.27	J/molxK	731.96	Joback Method
cpg	717.40	J/molxK	760.40	Joback Method
cpg	731.82	J/molxK	788.84	Joback Method
cpg	745.57	J/molxK	817.28	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C110790313&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C110790313&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>
<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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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