

# Pentanamide, N-propyl

<b>Inchi:</b>	InChI=1S/C8H17NO/c1-3-5-6-8(10)9-7-4-2/h3-7H2,1-2H3,(H,9,10)
<b>InchiKey:</b>	AKCVWFRALJPANX-UHFFFAOYSA-N
<b>Formula:</b>	C8H17NO
<b>SMILES:</b>	CCCCC(=O)NCCC
<b>Mol. weight [g/mol]:</b>	143.23

## Physical Properties

Property code	Value	Unit	Source
gf	-23.05	kJ/mol	Joback Method
hf	-267.56	kJ/mol	Joback Method
hfus	23.17	kJ/mol	Joback Method
hvap	46.58	kJ/mol	Joback Method
log10ws	-2.14		Crippen Method
logp	1.703		Crippen Method
mcvol	135.130	ml/mol	McGowan Method
pc	2741.15	kPa	Joback Method
rinpol	1237.00		NIST Webbook
tb	486.48	K	Joback Method
tc	665.17	K	Joback Method
tf	282.51	K	Joback Method
vc	0.524	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.21	J/molxK	486.48	Joback Method
cpg	315.13	J/molxK	516.26	Joback Method
cpg	327.51	J/molxK	546.04	Joback Method
cpg	339.35	J/molxK	575.82	Joback Method
cpg	350.67	J/molxK	605.60	Joback Method
cpg	361.49	J/molxK	635.38	Joback Method
cpg	371.81	J/molxK	665.17	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=R50814&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R50814&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>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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