

# Pentanamide, N-isopropyl

<b>Inchi:</b>	InChI=1S/C8H17NO/c1-4-5-6-8(10)9-7(2)3/h7H,4-6H2,1-3H3,(H,9,10)
<b>InchiKey:</b>	VZEVDNWWJCJQBA-UHFFFAOYSA-N
<b>Formula:</b>	C8H17NO
<b>SMILES:</b>	CCCCC(=O)NC(C)C
<b>Mol. weight [g/mol]:</b>	143.23

## Physical Properties

Property code	Value	Unit	Source
gf	-25.49	kJ/mol	Joback Method
hf	-272.84	kJ/mol	Joback Method
hfus	19.65	kJ/mol	Joback Method
hvap	46.20	kJ/mol	Joback Method
log10ws	-2.25		Crippen Method
logp	1.701		Crippen Method
mcvol	135.130	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
rinsol	1152.00		NIST Webbook
tb	486.04	K	Joback Method
tc	668.51	K	Joback Method
tf	267.51	K	Joback Method
vc	0.518	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.39	J/mol×K	486.04	Joback Method
cpg	315.67	J/mol×K	516.45	Joback Method
cpg	328.36	J/mol×K	546.86	Joback Method
cpg	340.49	J/mol×K	577.28	Joback Method
cpg	352.07	J/mol×K	607.69	Joback Method
cpg	363.11	J/mol×K	638.10	Joback Method
cpg	373.63	J/mol×K	668.51	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=R50793&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R50793&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>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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