

# Acetamide, N-(1-methylpropyl)-

<b>Other names:</b>	Acetamide, N-sec-butyl- N-sec-Butylacetamide
<b>Inchi:</b>	InChI=1S/C6H13NO/c1-4-5(2)7-6(3)8/h5H,4H2,1-3H3,(H,7,8)
<b>InchiKey:</b>	FILVHGGOUFZULB-UHFFFAOYSA-N
<b>Formula:</b>	C6H13NO
<b>SMILES:</b>	CCC(C)NC(C)=O
<b>Mol. weight [g/mol]:</b>	115.17
<b>CAS:</b>	1189-05-5

## Physical Properties

Property code	Value	Unit	Source
gf	-42.33	kJ/mol	Joback Method
hf	-231.56	kJ/mol	Joback Method
hfus	14.47	kJ/mol	Joback Method
hvap	41.74	kJ/mol	Joback Method
log10ws	-1.41		Crippen Method
logp	0.921		Crippen Method
mcvol	106.950	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
rinp	968.00		NIST Webbook
rinp	968.00		NIST Webbook
rip	1724.00		NIST Webbook
tb	440.28	K	Joback Method
tc	626.32	K	Joback Method
tf	244.97	K	Joback Method
vc	0.406	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	218.52	J/molxK	440.28	Joback Method
cpg	229.69	J/molxK	471.29	Joback Method
cpg	240.37	J/molxK	502.29	Joback Method
cpg	250.59	J/molxK	533.30	Joback Method

cpg	260.35	J/mol×K	564.30	Joback Method
cpg	269.67	J/mol×K	595.31	Joback Method
cpg	278.54	J/mol×K	626.32	Joback Method

## Sources

<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=C1189055&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1189055&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

## 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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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