

# N-(1-Adamantyl)acetamide

<b>Other names:</b>	1-Acetamidoadamantane 1-Acetylaminoadamantane 1-Acetamino adamantane Acetamide, N-tricyclo[3.3.1.1(3,7)-]dec-1-yl- Acetamide, N-1-adamantyl- 1-Adamantylacetamide N-tricyclo[3.3.1.13,7]dec-1-ylacetamide
<b>Inchi:</b>	InChI=1S/C12H19NO/c1-8(14)13-12-5-9-2-10(6-12)4-11(3-9)7-12/h9-11H,2-7H2,1H3,(H,
<b>InchiKey:</b>	BCVXYGJCDZPKG-VUHFFFAOYSA-N
<b>Formula:</b>	C12H19NO
<b>SMILES:</b>	CC(=O)NC12CC3CC(CC(C3)C1)C2
<b>Mol. weight [g/mol]:</b>	193.29
<b>CAS:</b>	880-52-4

## Physical Properties

Property code	Value	Unit	Source
gf	167.58	kJ/mol	Joback Method
hf	-142.98	kJ/mol	Joback Method
hfus	20.61	kJ/mol	Joback Method
hvap	53.94	kJ/mol	Joback Method
log10ws	-2.88		Crippen Method
logp	2.091		Crippen Method
mvol	158.910	ml/mol	McGowan Method
pc	2868.87	kPa	Joback Method
tb	598.06	K	Joback Method
tc	822.93	K	Joback Method
tf	397.55	K	Joback Method
vc	0.609	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	452.32	J/mol×K	598.06	Joback Method
cpg	471.33	J/mol×K	635.54	Joback Method

cpg	489.02	J/mol×K	673.02	Joback Method
cpg	505.59	J/mol×K	710.49	Joback Method
cpg	521.27	J/mol×K	747.97	Joback Method
cpg	536.26	J/mol×K	785.45	Joback Method
cpg	550.77	J/mol×K	822.93	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C880524&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C880524&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>
<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>mcvol:</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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