

# Acetamide, N-cyclohexyl-

<b>Other names:</b>	Acetamidocyclohexane N-Cyclohexylacetamide N-Acetylcyclohexylamine
<b>Inchi:</b>	InChI=1S/C8H15NO/c1-7(10)9-8-5-3-2-4-6-8/h8H,2-6H2,1H3,(H,9,10)
<b>InchiKey:</b>	WRAGCBBWIYQMRF-UHFFFAOYSA-N
<b>Formula:</b>	C8H15NO
<b>SMILES:</b>	CC(=O)NC1CCCCC1
<b>Mol. weight [g/mol]:</b>	141.21
<b>CAS:</b>	1124-53-4

## Physical Properties

Property code	Value	Unit	Source
gf	1.40	kJ/mol	Joback Method
hf	-213.24	kJ/mol	Joback Method
hfus	15.01	kJ/mol	Joback Method
hvap	47.01	kJ/mol	Joback Method
log10ws	-2.14		Crippen Method
logp	1.455		Crippen Method
mcvol	124.270	ml/mol	McGowan Method
pc	3439.94	kPa	Joback Method
rinpol	1268.00		NIST Webbook
rinpol	1313.00		NIST Webbook
ripol	2113.00		NIST Webbook
tb	506.03	K	Joback Method
tc	720.75	K	Joback Method
tf	289.89	K	Joback Method
vc	0.458	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.43	J/mol×K	506.03	Joback Method
cpg	304.07	J/mol×K	541.82	Joback Method
cpg	319.78	J/mol×K	577.60	Joback Method

cpg	334.56	J/mol×K	613.39	Joback Method
cpg	348.46	J/mol×K	649.18	Joback Method
cpg	361.50	J/mol×K	684.96	Joback Method
cpg	373.69	J/mol×K	720.75	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1124534&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1124534&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>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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