

# Acetamide, N-(«beta»-mercaptoethyl)-

<b>Other names:</b>	Acetamide, N-(2-mercaptoethyl)- Acetylcysteamine Cysteamine, N-acetyl- Ethanethiol, 2-(acetylamino)- N-(2-Mercaptoethyl)acetamide N-Acetyl cysteamin N-Acetylcysteamine N-Acetylmercaptoethylamine 2-Acetamidoethanethiol NSC 38835 N-(2-mercaptoethyl)acetamide (n-acetylcysteamine)
<b>Inchi:</b>	InChI=1S/C4H9NOS/c1-4(6)5-2-3-7/h7H,2-3H2,1H3,(H,5,6)
<b>InchiKey:</b>	AXFZADXWLMXITO-UHFFFAOYSA-N
<b>Formula:</b>	C4H9NOS
<b>SMILES:</b>	CC(=O)NCCS
<b>Mol. weight [g/mol]:</b>	119.19
<b>CAS:</b>	1190-73-4

## Physical Properties

Property code	Value	Unit	Source
gf	-27.34	kJ/mol	Joback Method
hf	-146.52	kJ/mol	Joback Method
hfus	16.86	kJ/mol	Joback Method
hvap	44.42	kJ/mol	Joback Method
log10ws	-0.53		Crippen Method
logp	0.052		Crippen Method
mcvol	95.120	ml/mol	McGowan Method
pc	4678.49	kPa	Joback Method
tb	457.82	K	Joback Method
tc	666.20	K	Joback Method
tf	273.89	K	Joback Method
vc	0.354	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	183.17	J/mol×K	457.82	Joback Method
cpg	192.02	J/mol×K	492.55	Joback Method
cpg	200.43	J/mol×K	527.28	Joback Method
cpg	208.42	J/mol×K	562.01	Joback Method
cpg	215.99	J/mol×K	596.74	Joback Method
cpg	223.15	J/mol×K	631.47	Joback Method
cpg	229.92	J/mol×K	666.20	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1190734&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1190734&amp;Units=SI</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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