

# Acetamide, 2-amino-

<b>Other names:</b>	Glycinamide H2NCH2CONH2 Glycine amide 2-aminoacetamide H2NCH2CONH2 (glycinamide)
<b>Inchi:</b>	InChI=1S/C2H6N2O/c3-1-2(4)5/h1,3H2,(H2,4,5)
<b>InchiKey:</b>	BEBCJVAWIBVWNZ-UHFFFAOYSA-N
<b>Formula:</b>	C2H6N2O
<b>SMILES:</b>	NCC(N)=O
<b>Mol. weight [g/mol]:</b>	74.08
<b>CAS:</b>	598-41-4

## Physical Properties

Property code	Value	Unit	Source
basg	882.30	kJ/mol	NIST Webbook
gf	-30.06	kJ/mol	Joback Method
hf	-129.61	kJ/mol	Joback Method
hfus	12.93	kJ/mol	Joback Method
hvap	48.07	kJ/mol	Joback Method
log10ws	0.70		Crippen Method
logp	-1.570		Crippen Method
mcvol	60.570	ml/mol	McGowan Method
pc	6577.70	kPa	Joback Method
tb	444.09	K	Joback Method
tc	658.23	K	Joback Method
tf	328.75	K	Joback Method
vc	0.211	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	122.06	J/molxK	444.09	Joback Method
cpg	127.94	J/molxK	479.78	Joback Method
cpg	133.51	J/molxK	515.47	Joback Method

cpg	138.80	J/mol×K	551.16	Joback Method
cpg	143.80	J/mol×K	586.85	Joback Method
cpg	148.53	J/mol×K	622.54	Joback Method
cpg	152.99	J/mol×K	658.23	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=C598414&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C598414&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>

## Legend

<b>basg:</b>	Gas basicity
<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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