

# 2-Aminoacetanilide

<b>Other names:</b>	Acetamide, N-(2-aminophenyl)-
<b>Inchi:</b>	InChI=1S/C8H10N2O/c1-6(11)10-8-5-3-2-4-7(8)9/h2-5H,9H2,1H3,(H,10,11)
<b>InchiKey:</b>	MPXAYYWSDIKNTP-UHFFFAOYSA-N
<b>Formula:</b>	C8H10N2O
<b>SMILES:</b>	CC(=O)Nc1ccccc1N
<b>Mol. weight [g/mol]:</b>	150.18
<b>CAS:</b>	34801-09-7

## Physical Properties

Property code	Value	Unit	Source
gf	146.18	kJ/mol	Joback Method
hf	-8.71	kJ/mol	Joback Method
hfus	22.02	kJ/mol	Joback Method
hvap	60.16	kJ/mol	Joback Method
ie	7.39 ± 0.02	eV	NIST Webbook
log10ws	-1.31		Crippen Method
logp	1.227		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	4233.04	kPa	Joback Method
tb	590.67	K	Joback Method
tc	823.28	K	Joback Method
tf	404.71	K	Joback Method
vc	0.446	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.50	J/molxK	590.67	Joback Method
cpg	297.98	J/molxK	629.44	Joback Method
cpg	308.67	J/molxK	668.21	Joback Method
cpg	318.60	J/molxK	706.98	Joback Method
cpg	327.79	J/molxK	745.75	Joback Method
cpg	336.28	J/molxK	784.52	Joback Method
cpg	344.12	J/molxK	823.28	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=C34801097&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C34801097&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>ie:</b>	Ionization energy
<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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