

# Acetamide, 2-(n-methylanilino)-

<b>Inchi:</b>	InChI=1S/C9H12N2O/c1-11(7-9(10)12)8-5-3-2-4-6-8/h2-6H,7H2,1H3,(H2,10,12)
<b>InchiKey:</b>	KOLJBMDKZNAERJ-UHFFFAOYSA-N
<b>Formula:</b>	C9H12N2O
<b>SMILES:</b>	CN(CC(N)=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	164.20
<b>CAS:</b>	21911-76-2

## Physical Properties

Property code	Value	Unit	Source
gf	185.62	kJ/mol	Joback Method
hf	-3.82	kJ/mol	Joback Method
hfus	22.92	kJ/mol	Joback Method
hvap	57.33	kJ/mol	Joback Method
log10ws	-1.01		Crippen Method
logp	0.608		Crippen Method
mcvol	135.440	ml/mol	McGowan Method
pc	3749.97	kPa	Joback Method
tb	570.84	K	Joback Method
tc	795.51	K	Joback Method
tf	383.27	K	Joback Method
vc	0.484	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.46	J/molxK	570.84	Joback Method
cpg	335.85	J/molxK	608.28	Joback Method
cpg	348.28	J/molxK	645.73	Joback Method
cpg	359.80	J/molxK	683.17	Joback Method
cpg	370.47	J/molxK	720.62	Joback Method
cpg	380.34	J/molxK	758.06	Joback Method
cpg	389.45	J/molxK	795.51	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=C21911762&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C21911762&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>

# 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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