

# Acetamide, N-(2,4-dichlorophenyl)-

<b>Other names:</b>	Acetanilide, 2',4'-dichloro- 2,4-Dichloroacetanilide 2',4'-Dichloroacetanilide
<b>Inchi:</b>	InChI=1S/C8H7Cl2NO/c1-5(12)11-8-3-2-6(9)4-7(8)10/h2-4H,1H3,(H,11,12)
<b>InchiKey:</b>	GZSGTFDLLISMMA-UHFFFAOYSA-N
<b>Formula:</b>	C8H7Cl2NO
<b>SMILES:</b>	CC(=O)Nc1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	204.05
<b>CAS:</b>	6975-29-7

## Physical Properties

Property code	Value	Unit	Source
gf	46.24	kJ/mol	Joback Method
hf	-85.45	kJ/mol	Joback Method
hfus	24.83	kJ/mol	Joback Method
hvap	58.95	kJ/mol	Joback Method
ie	8.09 ± 0.03	eV	NIST Webbook
log10ws	-3.04		Crippen Method
logp	2.952		Crippen Method
mcvol	135.850	ml/mol	McGowan Method
pc	3530.46	kPa	Joback Method
tb	597.98	K	Joback Method
tc	831.44	K	Joback Method
tf	393.81	K	Joback Method
vc	0.514	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.93	J/mol×K	597.98	Joback Method
cpg	288.66	J/mol×K	636.89	Joback Method
cpg	297.69	J/mol×K	675.80	Joback Method
cpg	306.07	J/mol×K	714.71	Joback Method
cpg	313.81	J/mol×K	753.62	Joback Method

cpg	320.94	J/mol×K	792.53	Joback Method
cpg	327.50	J/mol×K	831.44	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=C6975297&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6975297&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>
<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>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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