

# N-Acetyl-N-(2-chloro-4-methylphenyl)acetamide

<b>Other names:</b>	Acetamide, N-acetyl-N-(4-chloro-2-methylphenyl)-
<b>Inchi:</b>	InChI=1S/C11H12ClNO2/c1-7-4-5-11(10(12)6-7)13(8(2)14)9(3)15/h4-6H,1-3H3
<b>InchiKey:</b>	VNYHCBVBVCJOW-UHFFFAOYSA-N
<b>Formula:</b>	C11H12ClNO2
<b>SMILES:</b>	CC(=O)N(C(C)=O)c1ccc(C)cc1Cl
<b>Mol. weight [g/mol]:</b>	225.67

## Physical Properties

Property code	Value	Unit	Source
gf	-24.10	kJ/mol	Joback Method
hf	-230.15	kJ/mol	Joback Method
hfus	27.93	kJ/mol	Joback Method
hvap	63.60	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.548		Crippen Method
mvol	167.450	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
rinpol	1632.00		NIST Webbook
rinpol	1632.00		NIST Webbook
tb	645.33	K	Joback Method
tc	867.05	K	Joback Method
tf	427.44	K	Joback Method
vc	0.623	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.84	J/molxK	645.33	Joback Method
cpg	411.26	J/molxK	682.28	Joback Method
cpg	422.82	J/molxK	719.24	Joback Method
cpg	433.57	J/molxK	756.19	Joback Method
cpg	443.52	J/molxK	793.14	Joback Method
cpg	452.74	J/molxK	830.10	Joback Method
cpg	461.24	J/molxK	867.05	Joback Method

# Sources

<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=U373203&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373203&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>

# 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>rinpola:</b>	Non-polar retention indices
<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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