

# Acetamide, N-(3-nitrophenyl)-2-chloro-

<b>Inchi:</b>	InChI=1S/C8H7ClN2O3/c9-5-8(12)10-6-2-1-3-7(4-6)11(13)14/h1-4H,5H2,(H,10,12)
<b>InchiKey:</b>	UCBHRCPNMDOUMV-UHFFFAOYSA-N
<b>Formula:</b>	C8H7ClN2O3
<b>SMILES:</b>	O=C(CCl)Nc1cccc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	214.61

## Physical Properties

Property code	Value	Unit	Source
gf	103.35	kJ/mol	Joback Method
hf	-69.00	kJ/mol	Joback Method
hfus	32.38	kJ/mol	Joback Method
hvap	70.50	kJ/mol	Joback Method
log10ws	-2.48		Crippen Method
logp	1.772		Crippen Method
mcvol	141.030	ml/mol	McGowan Method
pc	3815.10	kPa	Joback Method
rinpol	1870.00		NIST Webbook
tb	707.41	K	Joback Method
tc	958.39	K	Joback Method
tf	494.98	K	Joback Method
vc	0.547	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	340.47	J/mol×K	707.41	Joback Method
cpg	350.01	J/mol×K	749.24	Joback Method
cpg	358.68	J/mol×K	791.07	Joback Method
cpg	366.55	J/mol×K	832.90	Joback Method
cpg	373.66	J/mol×K	874.73	Joback Method
cpg	380.06	J/mol×K	916.56	Joback Method
cpg	385.80	J/mol×K	958.39	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=U307241&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307241&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>

# 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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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