

# 2-Butenamide, N-(3-chlorophenyl)-3-methyl-

<b>Inchi:</b>	InChI=1S/C11H12ClNO/c1-8(2)6-11(14)13-10-5-3-4-9(12)7-10/h3-7H,1-2H3,(H,13,14)
<b>InchiKey:</b>	DYNVGFUQFOJQAY-UHFFFAOYSA-N
<b>Formula:</b>	C11H12ClNO
<b>SMILES:</b>	CC(C)=CC(=O)Nc1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	209.67

## Physical Properties

Property code	Value	Unit	Source
gf	164.73	kJ/mol	Joback Method
hf	-12.73	kJ/mol	Joback Method
hfus	27.68	kJ/mol	Joback Method
hvap	60.62	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.245		Crippen Method
mvol	161.580	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
rinpol	1843.00		NIST Webbook
tb	628.25	K	Joback Method
tc	857.64	K	Joback Method
tf	366.14	K	Joback Method
vc	0.615	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.63	J/mol×K	628.25	Joback Method
cpg	388.53	J/mol×K	666.48	Joback Method
cpg	400.52	J/mol×K	704.71	Joback Method
cpg	411.64	J/mol×K	742.95	Joback Method
cpg	421.95	J/mol×K	781.18	Joback Method
cpg	431.53	J/mol×K	819.41	Joback Method
cpg	440.43	J/mol×K	857.64	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307269&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307269&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>mccvol:</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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