

# Benzamide, N-(3-methylphenyl)-4-chloro-

<b>Inchi:</b>	InChI=1S/C14H12ClNO/c1-10-3-2-4-13(9-10)16-14(17)11-5-7-12(15)8-6-11/h2-9H,1H3,(
<b>InchiKey:</b>	ZGNNVNCFQUJRAG-UHFFFAOYSA-N
<b>Formula:</b>	C14H12ClNO
<b>SMILES:</b>	<chem>Cc1cccc(NC(=O)c2ccc(Cl)cc2)c1</chem>
<b>Mol. weight [g/mol]:</b>	245.70

## Physical Properties

Property code	Value	Unit	Source
gf	221.10	kJ/mol	Joback Method
hf	42.98	kJ/mol	Joback Method
hfus	30.22	kJ/mol	Joback Method
hvap	70.20	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	3.901		Crippen Method
mvol	184.390	ml/mol	McGowan Method
pc	2796.51	kPa	Joback Method
rmpol	2202.00		NIST Webbook
rmpol	2202.00		NIST Webbook
tb	724.51	K	Joback Method
tc	972.24	K	Joback Method
tf	457.93	K	Joback Method
vc	0.694	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	463.13	J/mol×K	724.51	Joback Method
cpg	476.46	J/mol×K	765.80	Joback Method
cpg	488.65	J/mol×K	807.09	Joback Method
cpg	499.77	J/mol×K	848.38	Joback Method
cpg	509.90	J/mol×K	889.66	Joback Method
cpg	519.12	J/mol×K	930.95	Joback Method
cpg	527.47	J/mol×K	972.24	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=U307396&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307396&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>h vap:</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>r in pol:</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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