

# Acetamide, N-(2-iodo-4-methylphenyl)-2-chloro-

Inchi:	InChI=1S/C9H9ClINO/c1-6-2-3-8(7(11)4-6)12-9(13)5-10/h2-4H,5H2,1H3,(H,12,13)
InchiKey:	LFRNCVQLQAZNXIS-UHFFFAOYSA-N
Formula:	C9H9ClINO
SMILES:	<chem>Cc1ccc(NC(=O)CCl)c(I)c1</chem>
Mol. weight [g/mol]:	309.53

## Physical Properties

Property code	Value	Unit	Source
gf	124.71	kJ/mol	Joback Method
hf	-13.48	kJ/mol	Joback Method
hfus	27.63	kJ/mol	Joback Method
hvap	66.17	kJ/mol	Joback Method
log10ws	-3.45		Crippen Method
logp	2.777		Crippen Method
mvol	163.520	ml/mol	McGowan Method
pc	3213.68	kPa	Joback Method
rinpol	1920.00		NIST Webbook
tb	676.57	K	Joback Method
tc	928.74	K	Joback Method
tf	433.22	K	Joback Method
vc	0.610	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	342.25	J/mol×K	676.57	Joback Method
cpg	352.46	J/mol×K	718.60	Joback Method
cpg	361.85	J/mol×K	760.63	Joback Method
cpg	370.48	J/mol×K	802.66	Joback Method
cpg	378.40	J/mol×K	844.69	Joback Method
cpg	385.66	J/mol×K	886.72	Joback Method
cpg	392.32	J/mol×K	928.74	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=U307242&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307242&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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