

# Propanamide, N-(2-iodo-4-methylphenyl)-3-chloro-

**Inchi:** InChI=1S/C10H11ClINO/c1-7-2-3-9(8(12)6-7)13-10(14)4-5-11/h2-3,6H,4-5H2,1H3,(H,13,

**InchiKey:** CRLIKQMWWMLNQX-UHFFFAOYSA-N

**Formula:** C10H11ClINO

**SMILES:** Cc1ccc(NC(=O)CCCI)c(I)c1

**Mol. weight [g/mol]:** 323.56

## Physical Properties

Property code	Value	Unit	Source
gf	133.13	kJ/mol	Joback Method
hf	-34.12	kJ/mol	Joback Method
hfus	30.22	kJ/mol	Joback Method
hvap	68.39	kJ/mol	Joback Method
log10ws	-3.87		Crippen Method
logp	3.167		Crippen Method
mvol	177.610	ml/mol	McGowan Method
pc	2890.51	kPa	Joback Method
rinpol	2137.00		NIST Webbook
rinpol	2137.00		NIST Webbook
tb	699.45	K	Joback Method
tc	946.03	K	Joback Method
tf	444.49	K	Joback Method
vc	0.665	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.91	J/mol×K	699.45	Joback Method
cpg	401.90	J/mol×K	740.55	Joback Method
cpg	412.05	J/mol×K	781.64	Joback Method
cpg	421.40	J/mol×K	822.74	Joback Method
cpg	430.01	J/mol×K	863.83	Joback Method
cpg	437.95	J/mol×K	904.93	Joback Method
cpg	445.25	J/mol×K	946.03	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=U307231&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307231&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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