

# Propanamide, N-(2-iodo-4-methylphenyl)-2-methyl-

<b>Inchi:</b>	InChI=1S/C11H14INO/c1-7(2)11(14)13-10-5-4-8(3)6-9(10)12/h4-7H,1-3H3,(H,13,14)
<b>InchiKey:</b>	GHLXAEZLMCTMAY-UHFFFAOYSA-N
<b>Formula:</b>	C11H14INO
<b>SMILES:</b>	Cc1ccc(NC(=O)C(C)C)c(I)c1
<b>Mol. weight [g/mol]:</b>	303.14

## Physical Properties

Property code	Value	Unit	Source
gf	151.04	kJ/mol	Joback Method
hf	-44.30	kJ/mol	Joback Method
hfus	25.09	kJ/mol	Joback Method
hvap	65.85	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.194		Crippen Method
mvol	179.460	ml/mol	McGowan Method
pc	2738.28	kPa	Joback Method
rinpol	1931.00		NIST Webbook
rinpol	1931.00		NIST Webbook
tb	684.46	K	Joback Method
tc	928.36	K	Joback Method
tf	410.84	K	Joback Method
vc	0.666	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.97	J/mol×K	684.46	Joback Method
cpg	432.01	J/mol×K	725.11	Joback Method
cpg	444.10	J/mol×K	765.76	Joback Method
cpg	455.28	J/mol×K	806.41	Joback Method
cpg	465.61	J/mol×K	847.06	Joback Method
cpg	475.15	J/mol×K	887.71	Joback Method
cpg	483.95	J/mol×K	928.36	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=U307326&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307326&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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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