

# Butanamide, N-(2-iodo-4-methylphenyl)-

<b>Inchi:</b>	InChI=1S/C11H14INO/c1-3-4-11(14)13-10-6-5-8(2)7-9(10)12/h5-7H,3-4H2,1-2H3,(H,13,14)
<b>InchiKey:</b>	IBNLKTMQCORLLV-UHFFFAOYSA-N
<b>Formula:</b>	C11H14INO
<b>SMILES:</b>	CCCC(=O)Nc1ccc(C)cc1I
<b>Mol. weight [g/mol]:</b>	303.14

## Physical Properties

Property code	Value	Unit	Source
gf	153.48	kJ/mol	Joback Method
hf	-39.02	kJ/mol	Joback Method
hfus	28.61	kJ/mol	Joback Method
hvap	66.23	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.338		Crippen Method
mcvol	179.460	ml/mol	McGowan Method
pc	2715.50	kPa	Joback Method
rinpola	1978.00		NIST Webbook
tb	684.90	K	Joback Method
tc	923.86	K	Joback Method
tf	425.84	K	Joback Method
vc	0.672	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.40	J/molxK	684.90	Joback Method
cpg	431.16	J/molxK	724.73	Joback Method
cpg	443.00	J/molxK	764.55	Joback Method
cpg	453.99	J/molxK	804.38	Joback Method
cpg	464.18	J/molxK	844.21	Joback Method
cpg	473.62	J/molxK	884.03	Joback Method
cpg	482.35	J/molxK	923.86	Joback Method

# Sources

<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.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=U306919&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U306919&amp;Units=SI</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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