

# 2-Butenamide, N-(2-iodo-4-methylphenyl)-3-methyl-

Inchi:	InChI=1S/C12H14INO/c1-8(2)6-12(15)14-11-5-4-9(3)7-10(11)13/h4-7H,1-3H3,(H,14,15)
InchiKey:	BYSKACWESUBYER-UHFFFAOYSA-N
Formula:	C12H14INO
SMILES:	CC(C)=CC(=O)Nc1ccc(C)cc1I
Mol. weight [g/mol]:	315.15

## Physical Properties

Property code	Value	Unit	Source
gf	233.57	kJ/mol	Joback Method
hf	47.77	kJ/mol	Joback Method
hfus	30.10	kJ/mol	Joback Method
hvap	68.50	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	3.504		Crippen Method
mcvol	189.250	ml/mol	McGowan Method
pc	2608.40	kPa	Joback Method
rinsol	2107.00		NIST Webbook
tb	711.82	K	Joback Method
tc	959.53	K	Joback Method
tf	418.07	K	Joback Method
vc	0.710	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	444.99	J/molxK	711.82	Joback Method
cpg	457.86	J/molxK	753.11	Joback Method
cpg	469.79	J/molxK	794.39	Joback Method
cpg	480.85	J/molxK	835.68	Joback Method
cpg	491.15	J/molxK	876.96	Joback Method
cpg	500.75	J/molxK	918.25	Joback Method
cpg	509.74	J/molxK	959.53	Joback Method

# Sources

<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=U307273&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307273&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>
<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>

# 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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