

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

**Inchi:** InChI=1S/C15H14INO/c1-10-3-6-12(7-4-10)15(18)17-14-8-5-11(2)9-13(14)16/h3-9H,1-2H

**InchiKey:** NPHMXPXHKIBAHJ-UHFFFAOYSA-N

**Formula:** C15H14INO

**SMILES:** Cc1ccc(C(=O)Nc2ccc(C)cc2I)cc1

**Mol. weight [g/mol]:** 351.18

## Physical Properties

Property code	Value	Unit	Source
gf	289.94	kJ/mol	Joback Method
hf	103.48	kJ/mol	Joback Method
hfus	32.62	kJ/mol	Joback Method
hvap	78.08	kJ/mol	Joback Method
log10ws	-5.55		Crippen Method
logp	4.160		Crippen Method
mcvol	212.060	ml/mol	McGowan Method
pc	2532.82	kPa	Joback Method
rinpol	2582.00		NIST Webbook
tb	808.08	K	Joback Method
tc	1072.07	K	Joback Method
tf	509.86	K	Joback Method
vc	0.788	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	533.71	J/molxK	808.08	Joback Method
cpg	546.58	J/molxK	852.08	Joback Method
cpg	558.32	J/molxK	896.08	Joback Method
cpg	569.02	J/molxK	940.08	Joback Method
cpg	578.78	J/molxK	984.07	Joback Method
cpg	587.70	J/molxK	1028.07	Joback Method
cpg	595.86	J/molxK	1072.07	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=U306963&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U306963&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>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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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