

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

<b>Inchi:</b>	InChI=1S/C16H16INO/c1-12-7-9-15(14(17)11-12)18-16(19)10-8-13-5-3-2-4-6-13/h2-7,9,
<b>InchiKey:</b>	IMJDTVSOVXJMMY-UHFFFAOYSA-N
<b>Formula:</b>	C16H16INO
<b>SMILES:</b>	<chem>Cc1ccc(NC(=O)CCc2ccccc2)c(I)c1</chem>
<b>Mol. weight [g/mol]:</b>	365.21

## Physical Properties

Property code	Value	Unit	Source
gf	307.99	kJ/mol	Joback Method
hf	94.31	kJ/mol	Joback Method
hfus	35.60	kJ/mol	Joback Method
hvap	79.64	kJ/mol	Joback Method
log10ws	-5.33		Crippen Method
logp	4.171		Crippen Method
mvol	226.150	ml/mol	McGowan Method
pc	2338.29	kPa	Joback Method
rinpol	2607.00		NIST Webbook
rinpol	2607.00		NIST Webbook
tb	825.98	K	Joback Method
tc	1083.56	K	Joback Method
tf	508.61	K	Joback Method
vc	0.845	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.36	J/mol×K	825.98	Joback Method
cpg	602.67	J/mol×K	868.91	Joback Method
cpg	614.85	J/mol×K	911.84	Joback Method
cpg	625.99	J/mol×K	954.77	Joback Method
cpg	636.21	J/mol×K	997.70	Joback Method
cpg	645.61	J/mol×K	1040.63	Joback Method
cpg	654.29	J/mol×K	1083.56	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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=U308121&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308121&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>hvp:</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>rinp:</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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