

# Isobutylcarbamate, N-(2-methylphenyl)

<b>Inchi:</b>	InChI=1S/C12H17NO2/c1-9(2)8-15-12(14)13-11-7-5-4-6-10(11)3/h4-7,9H,8H2,1-3H3,(H,
<b>InchiKey:</b>	KGGPXIPTGNJCMW-UHFFFAOYSA-N
<b>Formula:</b>	C12H17NO2
<b>SMILES:</b>	Cc1ccccc1NC(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	207.27

## Physical Properties

Property code	Value	Unit	Source
gf	5.97	kJ/mol	Joback Method
hf	-262.56	kJ/mol	Joback Method
hfus	24.85	kJ/mol	Joback Method
hvap	60.45	kJ/mol	Joback Method
log10ws	-3.23		Crippen Method
logp	3.200		Crippen Method
mcvol	173.600	ml/mol	McGowan Method
pc	2532.82	kPa	Joback Method
rinsol	1629.00		NIST Webbook
tb	631.64	K	Joback Method
tc	842.61	K	Joback Method
tf	373.76	K	Joback Method
vc	0.652	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.86	J/mol×K	631.64	Joback Method
cpg	460.85	J/mol×K	666.80	Joback Method
cpg	474.96	J/mol×K	701.96	Joback Method
cpg	488.20	J/mol×K	737.13	Joback Method
cpg	500.60	J/mol×K	772.29	Joback Method
cpg	512.17	J/mol×K	807.45	Joback Method
cpg	522.93	J/mol×K	842.61	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=R392499&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R392499&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>hvac:</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>mccol:</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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