

# Isobutylidene phthalide

<b>Inchi:</b>	InChI=1S/C12H12O2/c1-8(2)7-11-9-5-3-4-6-10(9)12(13)14-11/h3-8H,1-2H3/b11-7-
<b>InchiKey:</b>	LYSNVWBBICAAMS-XFFZJAGNSA-N
<b>Formula:</b>	C12H12O2
<b>SMILES:</b>	CC(C)C=C1OC(=O)c2ccccc21
<b>Mol. weight [g/mol]:</b>	188.22

## Physical Properties

Property code	Value	Unit	Source
gf	55.71	kJ/mol	Joback Method
hf	-171.76	kJ/mol	Joback Method
hfus	21.84	kJ/mol	Joback Method
hvap	54.62	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	2.854		Crippen Method
mvol	148.460	ml/mol	McGowan Method
pc	2992.59	kPa	Joback Method
ripol	2543.00		NIST Webbook
ripol	2563.00		NIST Webbook
tb	618.00	K	Joback Method
tc	858.31	K	Joback Method
tf	376.27	K	Joback Method
vc	0.562	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.42	J/mol×K	618.00	Joback Method
cpg	385.06	J/mol×K	658.05	Joback Method
cpg	398.71	J/mol×K	698.10	Joback Method
cpg	411.42	J/mol×K	738.15	Joback Method
cpg	423.25	J/mol×K	778.20	Joback Method
cpg	434.25	J/mol×K	818.25	Joback Method
cpg	444.46	J/mol×K	858.31	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R339512&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R339512&amp;Units=SI</a>
<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>

# 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>ripl:</b>	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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