

# 3-Isobutenyl-5-methyl-5-vinylbutyrolactone

<b>Inchi:</b>	InChI=1S/C11H16O2/c1-5-11(4)7-9(6-8(2)3)10(12)13-11/h5-6,9H,1,7H2,2-4H3
<b>InchiKey:</b>	XWGYDDYYOWAEQP-UHFFFAOYSA-N
<b>Formula:</b>	C11H16O2
<b>SMILES:</b>	C=CC1(C)CC(C=C(C)C)C(=O)O1
<b>Mol. weight [g/mol]:</b>	180.24

## Physical Properties

Property code	Value	Unit	Source
gf	15.89	kJ/mol	Joback Method
hf	-251.83	kJ/mol	Joback Method
hfus	18.05	kJ/mol	Joback Method
hvap	47.00	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	2.460		Crippen Method
mcvol	153.830	ml/mol	McGowan Method
pc	2611.07	kPa	Joback Method
rinsol	1324.00		NIST Webbook
tb	557.42	K	Joback Method
tc	785.09	K	Joback Method
tf	318.28	K	Joback Method
vc	0.580	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.33	J/mol×K	557.42	Joback Method
cpg	397.77	J/mol×K	595.36	Joback Method
cpg	414.17	J/mol×K	633.31	Joback Method
cpg	429.65	J/mol×K	671.25	Joback Method
cpg	444.32	J/mol×K	709.20	Joback Method
cpg	458.33	J/mol×K	747.14	Joback Method
cpg	471.77	J/mol×K	785.09	Joback Method

# Sources

<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=R229148&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R229148&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>

# 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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