

# Benzoic acid, 4-chloro, 1-methyl-3-butenyl ester

Inchi:	InChI=1S/C12H13ClO2/c1-3-4-9(2)15-12(14)10-5-7-11(13)8-6-10/h3,5-9H,1,4H2,2H3
InchiKey:	RRBRGAXTEHCQAZ-UHFFFAOYSA-N
Formula:	C12H13ClO2
SMILES:	C=CCC(C)OC(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]:	224.68

## Physical Properties

Property code	Value	Unit	Source
gf	-7.51	kJ/mol	Joback Method
hf	-206.34	kJ/mol	Joback Method
hfus	22.67	kJ/mol	Joback Method
hvap	57.73	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	3.461		Crippen Method
mcvol	171.560	ml/mol	McGowan Method
pc	2512.55	kPa	Joback Method
rinpol	1519.00		NIST Webbook
rinpol	1534.00		NIST Webbook
ripol	2096.00		NIST Webbook
ripol	2059.00		NIST Webbook
tb	615.58	K	Joback Method
tc	835.06	K	Joback Method
tf	349.26	K	Joback Method
vc	0.647	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	400.48	J/molxK	615.58	Joback Method
cpg	414.16	J/molxK	652.16	Joback Method
cpg	426.97	J/molxK	688.74	Joback Method
cpg	438.94	J/molxK	725.32	Joback Method
cpg	450.09	J/molxK	761.90	Joback Method
cpg	460.46	J/molxK	798.48	Joback Method

cpg	470.06	J/mol×K	835.06	Joback Method
dvisc	0.0018480	Paxs	349.26	Joback Method
dvisc	0.0009895	Paxs	393.65	Joback Method
dvisc	0.0006014	Paxs	438.03	Joback Method
dvisc	0.0004005	Paxs	482.42	Joback Method
dvisc	0.0002857	Paxs	526.81	Joback Method
dvisc	0.0002148	Paxs	571.19	Joback Method
dvisc	0.0001682	Paxs	615.58	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=R31131&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R31131&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>hvap:</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>rinpol:</b>	Non-polar retention indices
<b>ripol:</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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