

# 2-Chlorobenzoic acid, 3-methylbutyl-2 ester

<b>Other names:</b>	Benzoic acid, 2-chloro, 1,2-dimethylpropyl ester
<b>Inchi:</b>	InChI=1S/C12H15ClO2/c1-8(2)9(3)15-12(14)10-6-4-5-7-11(10)13/h4-9H,1-3H3
<b>InchiKey:</b>	GULZYXNRPUDADC-UHFFFAOYSA-N
<b>Formula:</b>	C12H15ClO2
<b>SMILES:</b>	CC(C)C(C)OC(=O)c1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	226.70

## Physical Properties

Property code	Value	Unit	Source
gf	-97.79	kJ/mol	Joback Method
hf	-337.05	kJ/mol	Joback Method
hfus	20.43	kJ/mol	Joback Method
hvap	58.01	kJ/mol	Joback Method
log10ws	-3.94		Crippen Method
logp	3.541		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2429.05	kPa	Joback Method
ripol	1538.00		NIST Webbook
ripol	1570.00		NIST Webbook
ripol	1540.00		NIST Webbook
ripol	1530.00		NIST Webbook
ripol	1521.00		NIST Webbook
ripol	1519.00		NIST Webbook
ripol	1521.00		NIST Webbook
ripol	1570.00		NIST Webbook
ripol	1529.00		NIST Webbook
ripol	2124.00		NIST Webbook
ripol	2084.00		NIST Webbook
ripol	2115.00		NIST Webbook
ripol	2089.00		NIST Webbook
ripol	2124.00		NIST Webbook
ripol	2122.00		NIST Webbook
ripol	2098.00		NIST Webbook
ripol	2084.00		NIST Webbook
tb	618.46	K	Joback Method
tc	838.01	K	Joback Method
tf	336.02	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.24	J/molxK	618.46	Joback Method
cpg	436.93	J/molxK	655.05	Joback Method
cpg	450.70	J/molxK	691.64	Joback Method
cpg	463.59	J/molxK	728.23	Joback Method
cpg	475.62	J/molxK	764.82	Joback Method
cpg	486.79	J/molxK	801.42	Joback Method
cpg	497.15	J/molxK	838.01	Joback Method
dvisc	0.0024032	Paxs	336.02	Joback Method
dvisc	0.0011407	Paxs	383.09	Joback Method
dvisc	0.0006373	Paxs	430.17	Joback Method
dvisc	0.0003994	Paxs	477.24	Joback Method
dvisc	0.0002722	Paxs	524.31	Joback Method
dvisc	0.0001976	Paxs	571.39	Joback Method
dvisc	0.0001507	Paxs	618.46	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=U360519&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360519&amp;Units=SI</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>p<sub>c</sub>:</b>	Critical Pressure
<b>r<sub>inpol</sub>:</b>	Non-polar retention indices
<b>r<sub>ipol</sub>:</b>	Polar retention indices
<b>t<sub>b</sub>:</b>	Normal Boiling Point Temperature
<b>t<sub>c</sub>:</b>	Critical Temperature
<b>t<sub>f</sub>:</b>	Normal melting (fusion) point
<b>v<sub>c</sub>:</b>	Critical Volume

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