

# 2-Chlorobenzoic acid, 4-methoxy-2-methylbutyl ester

<b>Inchi:</b>	InChI=1S/C13H17ClO3/c1-10(7-8-16-2)9-17-13(15)11-5-3-4-6-12(11)14/h3-6,10H,7-9H2
<b>InchiKey:</b>	AOYQHRUPNZPJHW-UHFFFAOYSA-N
<b>Formula:</b>	C13H17ClO3
<b>SMILES:</b>	COCCC(C)COC(=O)c1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	256.73

## Physical Properties

Property code	Value	Unit	Source
gf	-191.93	kJ/mol	Joback Method
hf	-484.63	kJ/mol	Joback Method
hfus	27.73	kJ/mol	Joback Method
hvap	63.03	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	3.169		Crippen Method
mvol	195.820	ml/mol	McGowan Method
pc	2163.33	kPa	Joback Method
rinpol	1853.00		NIST Webbook
rinpol	1853.00		NIST Webbook
tb	664.20	K	Joback Method
tc	873.60	K	Joback Method
tf	384.52	K	Joback Method
vc	0.741	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	497.88	J/molxK	664.20	Joback Method
cpg	512.51	J/molxK	699.10	Joback Method
cpg	526.26	J/molxK	734.00	Joback Method
cpg	539.15	J/molxK	768.90	Joback Method
cpg	551.19	J/molxK	803.80	Joback Method
cpg	562.37	J/molxK	838.70	Joback Method
cpg	572.71	J/molxK	873.60	Joback Method
dvisc	0.0012831	Paxs	384.52	Joback Method

dvisc	0.0006881	Paxs	431.13	Joback Method
dvisc	0.0004167	Paxs	477.75	Joback Method
dvisc	0.0002759	Paxs	524.36	Joback Method
dvisc	0.0001954	Paxs	570.97	Joback Method
dvisc	0.0001458	Paxs	617.59	Joback Method
dvisc	0.0001133	Paxs	664.20	Joback Method

## Sources

<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=U360524&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360524&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>

## 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>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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