

# 3-Chloro-2-fluorobenzoic acid, 4-methoxy-2-methylbutyl ester

<b>Inchi:</b>	InChI=1S/C13H16ClFO3/c1-9(6-7-17-2)8-18-13(16)10-4-3-5-11(14)12(10)15/h3-5,9H,6-8
<b>InchiKey:</b>	SGMQPTHYGIDLIJ-UHFFFAOYSA-N
<b>Formula:</b>	C13H16ClFO3
<b>SMILES:</b>	COCCC(C)COC(=O)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	274.72

## Physical Properties

Property code	Value	Unit	Source
gf	-396.37	kJ/mol	Joback Method
hf	-692.21	kJ/mol	Joback Method
hfus	30.42	kJ/mol	Joback Method
hvap	62.88	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	3.308		Crippen Method
mcvol	197.590	ml/mol	McGowan Method
pc	2047.46	kPa	Joback Method
rinsol	1868.00		NIST Webbook
tb	668.45	K	Joback Method
tc	870.17	K	Joback Method
tf	397.63	K	Joback Method
vc	0.758	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	505.07	J/mol×K	668.45	Joback Method
cpg	518.90	J/mol×K	702.07	Joback Method
cpg	531.93	J/mol×K	735.69	Joback Method
cpg	544.18	J/mol×K	769.31	Joback Method
cpg	555.64	J/mol×K	802.93	Joback Method
cpg	566.33	J/mol×K	836.55	Joback Method
cpg	576.24	J/mol×K	870.17	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=U360584&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360584&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>mccvol:</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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