

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

Inchi:	InChI=1S/C12H14ClFO2/c1-7(2)8(3)16-12(15)9-5-4-6-10(13)11(9)14/h4-8H,1-3H3
InchiKey:	FPBCBFOPARLNPO-UHFFFAOYSA-N
Formula:	C12H14ClFO2
SMILES:	CC(C)C(C)OC(=O)c1cccc(Cl)c1F
Mol. weight [g/mol]:	244.69

## Physical Properties

Property code	Value	Unit	Source
gf	-302.23	kJ/mol	Joback Method
hf	-544.63	kJ/mol	Joback Method
hfus	23.12	kJ/mol	Joback Method
hvap	57.85	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	3.680		Crippen Method
mcvol	177.630	ml/mol	McGowan Method
pc	2291.52	kPa	Joback Method
rinpol	1589.00		NIST Webbook
rinpol	1589.00		NIST Webbook
tb	622.71	K	Joback Method
tc	833.20	K	Joback Method
tf	349.13	K	Joback Method
vc	0.678	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.66	J/mol×K	622.71	Joback Method
cpg	443.42	J/mol×K	657.79	Joback Method
cpg	456.38	J/mol×K	692.87	Joback Method
cpg	468.55	J/mol×K	727.95	Joback Method
cpg	479.95	J/mol×K	763.03	Joback Method
cpg	490.59	J/mol×K	798.12	Joback Method
cpg	500.48	J/mol×K	833.20	Joback Method

# Sources

<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=U360579&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360579&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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>rinpola:</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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