

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

**Inchi:** InChI=1S/C9H8ClFO2/c1-2-13-9(12)6-4-3-5-7(10)8(6)11/h3-5H,2H2,1H3  
**InchiKey:** MCNAALBXEILIIB-UHFFFAOYSA-N  
**Formula:** C9H8ClFO2  
**SMILES:** CCOC(=O)c1cccc(Cl)c1F  
**Mol. weight [g/mol]:** 202.61

## Physical Properties

Property code	Value	Unit	Source
gf	-322.61	kJ/mol	Joback Method
hf	-472.15	kJ/mol	Joback Method
hfus	22.39	kJ/mol	Joback Method
hvap	51.95	kJ/mol	Joback Method
log10ws	-3.15		Crippen Method
logp	2.656		Crippen Method
mcvol	135.360	ml/mol	McGowan Method
pc	3028.94	kPa	Joback Method
rinpol	1363.00		NIST Webbook
rinpol	1363.00		NIST Webbook
tb	554.95	K	Joback Method
tc	767.13	K	Joback Method
tf	345.32	K	Joback Method
vc	0.522	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.39	J/mol×K	554.95	Joback Method
cpg	299.04	J/mol×K	590.31	Joback Method
cpg	309.11	J/mol×K	625.68	Joback Method
cpg	318.61	J/mol×K	661.04	Joback Method
cpg	327.55	J/mol×K	696.40	Joback Method
cpg	335.92	J/mol×K	731.76	Joback Method
cpg	343.75	J/mol×K	767.13	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=U338877&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338877&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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

Latest version available from:

<https://www.chemeo.com/cid/97-154-4/3-Chloro-2-fluorobenzoic-acid-ethyl-ester.pdf>

Generated by Cheméo on 2024-04-23 14:56:50.756688933 +0000 UTC m=+16173459.677266254.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.