

# 3-Chloro-2-fluorobenzoic acid, phenylester

<b>Inchi:</b>	InChI=1S/C13H8ClFO2/c14-11-8-4-7-10(12(11)15)13(16)17-9-5-2-1-3-6-9/h1-8H
<b>InchiKey:</b>	JNBLJOFYPYZIRPK-UHFFFAOYSA-N
<b>Formula:</b>	C13H8ClFO2
<b>SMILES:</b>	O=C(Oc1ccccc1)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	250.65

## Physical Properties

Property code	Value	Unit	Source
gf	-176.52	kJ/mol	Joback Method
hf	-318.18	kJ/mol	Joback Method
hfus	26.79	kJ/mol	Joback Method
hvap	63.13	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	3.698		Crippen Method
mvol	167.960	ml/mol	McGowan Method
pc	2859.68	kPa	Joback Method
rinpol	1890.00		NIST Webbook
tb	673.15	K	Joback Method
tc	913.93	K	Joback Method
tf	416.82	K	Joback Method
vc	0.638	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.42	J/mol×K	673.15	Joback Method
cpg	408.77	J/mol×K	713.28	Joback Method
cpg	420.11	J/mol×K	753.41	Joback Method
cpg	430.47	J/mol×K	793.54	Joback Method
cpg	439.89	J/mol×K	833.67	Joback Method
cpg	448.41	J/mol×K	873.80	Joback Method
cpg	456.07	J/mol×K	913.93	Joback Method

# Sources

<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>
<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=U357724&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357724&amp;Units=SI</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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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