

# 3-Chloro-2-fluorobenzoic acid, 2,4,5-trichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C13H5Cl4FO2/c14-7-3-1-2-6(12(7)18)13(19)20-11-5-9(16)8(15)4-10(11)17/h1-
<b>InchiKey:</b>	FWGMRMAWPZDVFI-UHFFFAOYSA-N
<b>Formula:</b>	C13H5Cl4FO2
<b>SMILES:</b>	O=C(Oc1cc(Cl)c(Cl)cc1Cl)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	353.99

## Physical Properties

Property code	Value	Unit	Source
gf	-241.20	kJ/mol	Joback Method
hf	-399.81	kJ/mol	Joback Method
hfus	38.22	kJ/mol	Joback Method
hvap	78.27	kJ/mol	Joback Method
log10ws	-6.63		Crippen Method
logp	5.659		Crippen Method
mcvol	204.680	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
rinsol	2411.00		NIST Webbook
tb	800.38	K	Joback Method
tc	1049.98	K	Joback Method
tf	544.14	K	Joback Method
vc	0.785	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	452.35	J/mol×K	800.38	Joback Method
cpg	460.90	J/mol×K	841.98	Joback Method
cpg	468.57	J/mol×K	883.58	Joback Method
cpg	475.35	J/mol×K	925.18	Joback Method
cpg	481.29	J/mol×K	966.78	Joback Method
cpg	486.39	J/mol×K	1008.38	Joback Method
cpg	490.68	J/mol×K	1049.98	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=U360588&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360588&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>
<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>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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