

# 3-Chloro-2-fluorobenzoic acid, 4-isopropylphenyl ester

Inchi:	InChI=1S/C16H14ClFO2/c1-10(2)11-6-8-12(9-7-11)20-16(19)13-4-3-5-14(17)15(13)18/h
InchiKey:	KKWCTQWJMJGYFU-UHFFFAOYSA-N
Formula:	C16H14ClFO2
SMILES:	CC(C)c1ccc(OC(=O)c2cccc(Cl)c2F)cc1
Mol. weight [g/mol]:	292.73

## Physical Properties

Property code	Value	Unit	Source
gf	-163.33	kJ/mol	Joback Method
hf	-396.85	kJ/mol	Joback Method
hfus	30.65	kJ/mol	Joback Method
hvap	70.08	kJ/mol	Joback Method
log10ws	-5.76		Crippen Method
logp	4.822		Crippen Method
mcvol	210.230	ml/mol	McGowan Method
pc	2133.46	kPa	Joback Method
rinpol	2184.00		NIST Webbook
rinpol	2184.00		NIST Webbook
tb	746.33	K	Joback Method
tc	978.53	K	Joback Method
tf	448.15	K	Joback Method
vc	0.800	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	549.74	J/molxK	746.33	Joback Method
cpg	563.68	J/molxK	785.03	Joback Method
cpg	576.52	J/molxK	823.73	Joback Method
cpg	588.28	J/molxK	862.43	Joback Method
cpg	599.02	J/molxK	901.13	Joback Method
cpg	608.76	J/molxK	939.83	Joback Method
cpg	617.54	J/molxK	978.53	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357333&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357333&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

# 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

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