

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

Inchi:	InChI=1S/C16H14ClFO2/c1-2-6-11-7-3-4-10-14(11)20-16(19)12-8-5-9-13(17)15(12)18/h
InchiKey:	ZFJBUZDFPACSNX-UHFFFAOYSA-N
Formula:	C16H14ClFO2
SMILES:	CCCc1ccccc1OC(=O)c1cccc(Cl)c1F
Mol. weight [g/mol]:	292.73

## Physical Properties

Property code	Value	Unit	Source
gf	-160.89	kJ/mol	Joback Method
hf	-391.57	kJ/mol	Joback Method
hfus	34.17	kJ/mol	Joback Method
hvap	70.47	kJ/mol	Joback Method
log10ws	-5.80		Crippen Method
logp	4.651		Crippen Method
mcvol	210.230	ml/mol	McGowan Method
pc	2117.78	kPa	Joback Method
rinpol	2093.00		NIST Webbook
rinpol	2093.00		NIST Webbook
tb	746.77	K	Joback Method
tc	974.84	K	Joback Method
tf	463.15	K	Joback Method
vc	0.806	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	549.16	J/molxK	746.77	Joback Method
cpg	562.84	J/molxK	784.78	Joback Method
cpg	575.47	J/molxK	822.79	Joback Method
cpg	587.09	J/molxK	860.80	Joback Method
cpg	597.71	J/molxK	898.81	Joback Method
cpg	607.39	J/molxK	936.83	Joback Method
cpg	616.16	J/molxK	974.84	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360585&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360585&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>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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