

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

**Inchi:** InChI=1S/C15H20ClFO2/c1-2-3-4-5-6-7-11-19-15(18)12-9-8-10-13(16)14(12)17/h8-10H,  
**InchiKey:** FYYLECUExKEEKf-UHFFFAOYSA-N  
**Formula:** C<sub>15</sub>H<sub>20</sub>ClFO<sub>2</sub>  
**SMILES:** CCCCCCCCOC(=O)c1cccc(Cl)c1F  
**Mol. weight [g/mol]:** 286.77

## Physical Properties

Property code	Value	Unit	Source
gf	-272.09	kJ/mol	Joback Method
hf	-595.99	kJ/mol	Joback Method
hfus	37.93	kJ/mol	Joback Method
hvap	65.31	kJ/mol	Joback Method
log10ws	-5.66		Crippen Method
logp	4.996		Crippen Method
mvol	219.900	ml/mol	McGowan Method
pc	1746.28	kPa	Joback Method
rinpol	2012.00		NIST Webbook
rinpol	2012.00		NIST Webbook
tb	692.23	K	Joback Method
tc	887.63	K	Joback Method
tf	412.94	K	Joback Method
vc	0.859	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	582.92	J/mol×K	692.23	Joback Method
cpg	597.72	J/mol×K	724.80	Joback Method
cpg	611.68	J/mol×K	757.36	Joback Method
cpg	624.83	J/mol×K	789.93	Joback Method
cpg	637.19	J/mol×K	822.50	Joback Method
cpg	648.78	J/mol×K	855.06	Joback Method
cpg	659.61	J/mol×K	887.63	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U338885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338885&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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