

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

**Inchi:** InChI=1S/C20H30ClFO2/c1-2-3-4-5-6-7-8-9-10-11-12-16-24-20(23)17-14-13-15-18(21)19  
**InchiKey:** LPBHSXJAFYJXGC-UHFFFAOYSA-N  
**Formula:** C20H30ClFO2  
**SMILES:** CCCCCCCCCCCCOC(=O)c1cccc(Cl)c1F  
**Mol. weight [g/mol]:** 356.90

## Physical Properties

Property code	Value	Unit	Source
gf	-229.99	kJ/mol	Joback Method
hf	-699.19	kJ/mol	Joback Method
hfus	50.88	kJ/mol	Joback Method
hvap	76.44	kJ/mol	Joback Method
log10ws	-7.75		Crippen Method
logp	6.947		Crippen Method
mvol	290.350	ml/mol	McGowan Method
pc	1211.51	kPa	Joback Method
rinpol	2518.00		NIST Webbook
rinpol	2518.00		NIST Webbook
tb	806.63	K	Joback Method
tc	999.22	K	Joback Method
tf	469.29	K	Joback Method
vc	1.139	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	864.12	J/mol×K	806.63	Joback Method
cpg	880.68	J/mol×K	838.73	Joback Method
cpg	896.23	J/mol×K	870.83	Joback Method
cpg	910.83	J/mol×K	902.92	Joback Method
cpg	924.49	J/mol×K	935.02	Joback Method
cpg	937.24	J/mol×K	967.12	Joback Method
cpg	949.12	J/mol×K	999.22	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=U338890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338890&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>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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