

# 3-Chloro2-fluorobenzoic acid, 3-hexadecyl ester

Inchi:	InChI=1S/C23H36ClFO2/c1-3-5-6-7-8-9-10-11-12-13-14-16-19(4-2)27-23(26)20-17-15-1
InchiKey:	LBSZBBPFLCGGTD-UHFFFAOYSA-N
Formula:	C23H36ClFO2
SMILES:	CCCCCCCCCCCCC(CC)OC(=O)c1cccc(Cl)c1F
Mol. weight [g/mol]:	398.98

## Physical Properties

Property code	Value	Unit	Source
gf	-207.17	kJ/mol	Joback Method
hf	-766.39	kJ/mol	Joback Method
hfus	55.13	kJ/mol	Joback Method
hvap	82.73	kJ/mol	Joback Method
log10ws	-9.12		Crippen Method
logp	8.116		Crippen Method
mvol	332.620	ml/mol	McGowan Method
pc	1005.89	kPa	Joback Method
rinpol	2702.00		NIST Webbook
rinpol	2702.00		NIST Webbook
tb	874.83	K	Joback Method
tc	1074.11	K	Joback Method
tf	488.10	K	Joback Method
vc	1.300	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1044.42	J/molxK	874.83	Joback Method
cpg	1061.98	J/molxK	908.04	Joback Method
cpg	1078.38	J/molxK	941.26	Joback Method
cpg	1093.68	J/molxK	974.47	Joback Method
cpg	1107.91	J/molxK	1007.68	Joback Method
cpg	1121.11	J/molxK	1040.89	Joback Method
cpg	1133.33	J/molxK	1074.11	Joback Method

# Sources

<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=U338654&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338654&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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