

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

<b>Inchi:</b>	InChI=1S/C19H28ClFO2/c1-3-5-6-7-8-9-10-12-15(4-2)23-19(22)16-13-11-14-17(20)18(1)
<b>InchiKey:</b>	XFIDLLHSWWZOJA-UHFFFAOYSA-N
<b>Formula:</b>	C19H28ClFO2
<b>SMILES:</b>	CCCCCCCCC(CC)OC(=O)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	342.88

## Physical Properties

Property code	Value	Unit	Source
gf	-240.85	kJ/mol	Joback Method
hf	-683.83	kJ/mol	Joback Method
hfus	44.77	kJ/mol	Joback Method
hvap	73.82	kJ/mol	Joback Method
log10ws	-7.45		Crippen Method
logp	6.555		Crippen Method
mvol	276.260	ml/mol	McGowan Method
pc	1304.23	kPa	Joback Method
rinpol	2280.00		NIST Webbook
rinpol	2280.00		NIST Webbook
tb	783.31	K	Joback Method
tc	977.36	K	Joback Method
tf	443.02	K	Joback Method
vc	1.077	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	806.36	J/molxK	783.31	Joback Method
cpg	822.78	J/molxK	815.65	Joback Method
cpg	838.21	J/molxK	847.99	Joback Method
cpg	852.68	J/molxK	880.33	Joback Method
cpg	866.22	J/molxK	912.68	Joback Method
cpg	878.86	J/molxK	945.02	Joback Method
cpg	890.62	J/molxK	977.36	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.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>
<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=U338638&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338638&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

Latest version available from:

<https://www.cheméo.com/cid/116-936-4/3-Chloro2-fluorobenzoic-acid-3-dodecyl-ester.pdf>

Generated by Cheméo on 2024-04-28 18:29:46.103993577 +0000 UTC m=+16618235.024570892.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.