

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

<b>Inchi:</b>	InChI=1S/C19H12ClFO2/c20-16-11-6-10-15(18(16)21)19(22)23-17-12-5-4-9-14(17)13-7
<b>InchiKey:</b>	SQBCNBGRVHHVRK-UHFFFAOYSA-N
<b>Formula:</b>	C19H12ClFO2
<b>SMILES:</b>	O=C(Oc1ccccc1-c1ccccc1)c1ccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	326.75

## Physical Properties

Property code	Value	Unit	Source
gf	-23.22	kJ/mol	Joback Method
hf	-216.96	kJ/mol	Joback Method
hfus	35.99	kJ/mol	Joback Method
hvap	79.43	kJ/mol	Joback Method
log10ws	-7.18		Crippen Method
logp	5.365		Crippen Method
mvol	228.740	ml/mol	McGowan Method
pc	2204.15	kPa	Joback Method
rinpol	2446.00		NIST Webbook
rinpol	2446.00		NIST Webbook
tb	842.09	K	Joback Method
tc	1097.09	K	Joback Method
tf	523.38	K	Joback Method
vc	0.867	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	617.09	J/molxK	842.09	Joback Method
cpg	629.76	J/molxK	884.59	Joback Method
cpg	641.10	J/molxK	927.09	Joback Method
cpg	651.21	J/molxK	969.59	Joback Method
cpg	660.15	J/molxK	1012.09	Joback Method
cpg	668.00	J/molxK	1054.59	Joback Method
cpg	674.85	J/molxK	1097.09	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=U357335&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357335&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>
<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>hvap:</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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