

# 3-Chloro-2-fluorobenzoic acid, 2-nitro-5-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C13H6ClF2NO4/c14-9-3-1-2-8(12(9)16)13(18)21-11-6-7(15)4-5-10(11)17(19)2
<b>InchiKey:</b>	HUKPKYZHEGUWVG-UHFFFAOYSA-N
<b>Formula:</b>	C13H6ClF2NO4
<b>SMILES:</b>	O=C(Oc1cc(F)ccc1[N+](=O)[O-])c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	313.64

## Physical Properties

Property code	Value	Unit	Source
gf	-355.04	kJ/mol	Joback Method
hf	-547.99	kJ/mol	Joback Method
hfus	40.46	kJ/mol	Joback Method
hvap	80.23	kJ/mol	Joback Method
log10ws	-5.56		Crippen Method
logp	3.746		Crippen Method
mcvol	187.150	ml/mol	McGowan Method
pc	2676.31	kPa	Joback Method
rinpol	2185.00		NIST Webbook
tb	834.22	K	Joback Method
tc	1083.37	K	Joback Method
tf	586.06	K	Joback Method
vc	0.739	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.83	J/mol×K	834.22	Joback Method
cpg	495.85	J/mol×K	875.75	Joback Method
cpg	503.87	J/mol×K	917.27	Joback Method
cpg	510.91	J/mol×K	958.80	Joback Method
cpg	517.00	J/mol×K	1000.32	Joback Method
cpg	522.18	J/mol×K	1041.85	Joback Method
cpg	526.46	J/mol×K	1083.37	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357731&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357731&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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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