

# Benzamide, 3-chloro-2-fluoro-N-(3-chloro-2-fluorobenzoyl)-N-p

<b>Inchi:</b>	InChI=1S/C19H17Cl2F2NO2/c1-2-3-4-11-24(18(25)12-7-5-9-14(20)16(12)22)19(26)13-8
<b>InchiKey:</b>	YPVHKQIFOJBXQD-UHFFFAOYSA-N
<b>Formula:</b>	C19H17Cl2F2NO2
<b>SMILES:</b>	CCCCCN(C(=O)c1cccc(Cl)c1F)C(=O)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	400.25

## Physical Properties

Property code	Value	Unit	Source
gf	-265.14	kJ/mol	Joback Method
hf	-589.64	kJ/mol	Joback Method
hfus	52.27	kJ/mol	Joback Method
hvap	87.76	kJ/mol	Joback Method
log10ws	-7.29		Crippen Method
logp	5.744		Crippen Method
mcvol	272.190	ml/mol	McGowan Method
pc	1625.91	kPa	Joback Method
rinpol	2543.00		NIST Webbook
rinpol	2543.00		NIST Webbook
tb	900.98	K	Joback Method
tc	1123.42	K	Joback Method
tf	600.16	K	Joback Method
vc	1.048	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	768.42	J/molxK	900.98	Joback Method
cpg	779.95	J/molxK	938.05	Joback Method
cpg	790.51	J/molxK	975.13	Joback Method
cpg	800.18	J/molxK	1012.20	Joback Method
cpg	809.03	J/molxK	1049.28	Joback Method
cpg	817.12	J/molxK	1086.35	Joback Method
cpg	824.51	J/molxK	1123.42	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=U407840&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407840&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>

# 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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