

# 3-Chloro-2-fluorobenzamide, N-pentyl-

<b>Inchi:</b>	InChI=1S/C12H15ClFNO/c1-2-3-4-8-15-12(16)9-6-5-7-10(13)11(9)14/h5-7H,2-4,8H2,1H3
<b>InchiKey:</b>	LFMPIITXVHOGLI-UHFFFAOYSA-N
<b>Formula:</b>	C12H15ClFNO
<b>SMILES:</b>	CCCCCNC(=O)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	243.71

## Physical Properties

Property code	Value	Unit	Source
gf	-102.96	kJ/mol	Joback Method
hf	-348.38	kJ/mol	Joback Method
hfus	34.07	kJ/mol	Joback Method
hvap	62.66	kJ/mol	Joback Method
log10ws	-4.51		Crippen Method
logp	3.399		Crippen Method
mcvol	181.740	ml/mol	McGowan Method
pc	2322.54	kPa	Joback Method
rinpola	1906.00		NIST Webbook
rinpola	1906.00		NIST Webbook
tb	651.34	K	Joback Method
tc	855.88	K	Joback Method
tf	409.56	K	Joback Method
vc	0.708	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.02	J/molxK	651.34	Joback Method
cpg	467.16	J/molxK	685.43	Joback Method
cpg	479.52	J/molxK	719.52	Joback Method
cpg	491.12	J/molxK	753.61	Joback Method
cpg	501.99	J/molxK	787.70	Joback Method
cpg	512.16	J/molxK	821.79	Joback Method
cpg	521.65	J/molxK	855.88	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=U358131&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358131&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>h vap:</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>r in pol:</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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