

# Benzamide, 3-chloro-2-fluoro-N-hexyl-

<b>Inchi:</b>	InChI=1S/C13H17ClFNO/c1-2-3-4-5-9-16-13(17)10-7-6-8-11(14)12(10)15/h6-8H,2-5,9H2
<b>InchiKey:</b>	GXRPDIIYIRZGBX-UHFFFAOYSA-N
<b>Formula:</b>	C13H17ClFNO
<b>SMILES:</b>	CCCCCCNC(=O)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	257.73

## Physical Properties

Property code	Value	Unit	Source
gf	-94.54	kJ/mol	Joback Method
hf	-369.02	kJ/mol	Joback Method
hfus	36.66	kJ/mol	Joback Method
hvap	64.88	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	3.789		Crippen Method
mvol	195.830	ml/mol	McGowan Method
pc	2121.68	kPa	Joback Method
rinpol	1965.00		NIST Webbook
rinpol	1965.00		NIST Webbook
tb	674.22	K	Joback Method
tc	876.08	K	Joback Method
tf	420.83	K	Joback Method
vc	0.763	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	504.99	J/mol×K	674.22	Joback Method
cpg	518.68	J/mol×K	707.86	Joback Method
cpg	531.56	J/mol×K	741.51	Joback Method
cpg	543.66	J/mol×K	775.15	Joback Method
cpg	555.00	J/mol×K	808.79	Joback Method
cpg	565.62	J/mol×K	842.44	Joback Method
cpg	575.54	J/mol×K	876.08	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=U407824&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407824&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>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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