

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

<b>Inchi:</b>	InChI=1S/C18H27ClFNO/c1-2-3-4-5-6-7-8-9-10-14-21-18(22)15-12-11-13-16(19)17(15)2
<b>InchiKey:</b>	ZTFSZVVGJHCSFT-UHFFFAOYSA-N
<b>Formula:</b>	C18H27ClFNO
<b>SMILES:</b>	CCCCCCCCCNC(=O)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	327.86

## Physical Properties

Property code	Value	Unit	Source
gf	-52.44	kJ/mol	Joback Method
hf	-472.22	kJ/mol	Joback Method
hfus	49.61	kJ/mol	Joback Method
hvap	76.01	kJ/mol	Joback Method
log10ws	-7.02		Crippen Method
logp	5.740		Crippen Method
mvol	266.280	ml/mol	McGowan Method
pc	1422.92	kPa	Joback Method
rinpol	2505.00		NIST Webbook
rinpol	2505.00		NIST Webbook
tb	788.62	K	Joback Method
tc	983.65	K	Joback Method
tf	477.18	K	Joback Method
vc	1.044	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	778.35	J/mol×K	788.62	Joback Method
cpg	794.01	J/mol×K	821.13	Joback Method
cpg	808.73	J/mol×K	853.63	Joback Method
cpg	822.57	J/mol×K	886.14	Joback Method
cpg	835.56	J/mol×K	918.64	Joback Method
cpg	847.74	J/mol×K	951.15	Joback Method
cpg	859.15	J/mol×K	983.65	Joback Method

# Sources

<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.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>
<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=U407830&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407830&amp;Units=SI</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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