

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

<b>Inchi:</b>	InChI=1S/C8H7ClFNO/c1-11-8(12)5-3-2-4-6(9)7(5)10/h2-4H,1H3,(H,11,12)
<b>InchiKey:</b>	XPWCHFCRQGESMV-UHFFFAOYSA-N
<b>Formula:</b>	C8H7ClFNO
<b>SMILES:</b>	CNC(=O)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	187.60

## Physical Properties

Property code	Value	Unit	Source
gf	-136.64	kJ/mol	Joback Method
hf	-265.82	kJ/mol	Joback Method
hfus	23.71	kJ/mol	Joback Method
hvap	53.75	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	1.839		Crippen Method
mcvol	125.380	ml/mol	McGowan Method
pc	3497.14	kPa	Joback Method
rinpol	1502.00		NIST Webbook
rinpol	1502.00		NIST Webbook
tb	559.82	K	Joback Method
tc	777.97	K	Joback Method
tf	364.48	K	Joback Method
vc	0.483	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.35	J/mol×K	559.82	Joback Method
cpg	275.34	J/mol×K	596.18	Joback Method
cpg	284.71	J/mol×K	632.54	Joback Method
cpg	293.46	J/mol×K	668.90	Joback Method
cpg	301.62	J/mol×K	705.26	Joback Method
cpg	309.21	J/mol×K	741.62	Joback Method
cpg	316.25	J/mol×K	777.97	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=U407817&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407817&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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