

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

<b>Inchi:</b>	InChI=1S/C11H13ClFNO/c1-7(2)6-14-11(15)8-4-3-5-9(12)10(8)13/h3-5,7H,6H2,1-2H3,(H
<b>InchiKey:</b>	KFCVWUKBTQKXQQ-UHFFFAOYSA-N
<b>Formula:</b>	C11H13ClFNO
<b>SMILES:</b>	CC(C)CNC(=O)c1cccc(Cl)c1F
<b>Mol. weight [g/mol]:</b>	229.68

## Physical Properties

Property code	Value	Unit	Source
gf	-113.82	kJ/mol	Joback Method
hf	-333.02	kJ/mol	Joback Method
hfus	27.96	kJ/mol	Joback Method
hvap	60.04	kJ/mol	Joback Method
log10ws	-3.85		Crippen Method
logp	2.865		Crippen Method
mvol	167.650	ml/mol	McGowan Method
pc	2574.11	kPa	Joback Method
rinpol	1700.00		NIST Webbook
rinpol	1700.00		NIST Webbook
tb	628.02	K	Joback Method
tc	839.65	K	Joback Method
tf	383.29	K	Joback Method
vc	0.645	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.96	J/mol×K	628.02	Joback Method
cpg	417.77	J/mol×K	663.29	Joback Method
cpg	429.77	J/mol×K	698.56	Joback Method
cpg	441.01	J/mol×K	733.84	Joback Method
cpg	451.51	J/mol×K	769.11	Joback Method
cpg	461.30	J/mol×K	804.38	Joback Method
cpg	470.40	J/mol×K	839.65	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=U407820&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407820&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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