

# Benzamide, 3-chloro-2-fluoro-N-(3-chloro-2-fluorobenzoyl)-N-

**Inchi:** InChI=1S/C15H9Cl2F2NO2/c1-20(14(21)8-4-2-6-10(16)12(8)18)15(22)9-5-3-7-11(17)13

**InchiKey:** RRZRNEUGDMUJDO-UHFFFAOYSA-N

**Formula:** C15H9Cl2F2NO2

**SMILES:** CN(C(=O)c1cccc(Cl)c1F)C(=O)c1cccc(Cl)c1F

**Mol. weight [g/mol]:** 344.14

## Physical Properties

Property code	Value	Unit	Source
gf	-298.82	kJ/mol	Joback Method
hf	-507.08	kJ/mol	Joback Method
hfus	41.90	kJ/mol	Joback Method
hvap	78.86	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	4.184		Crippen Method
mcvol	215.830	ml/mol	McGowan Method
pc	2276.24	kPa	Joback Method
rinpol	2236.00		NIST Webbook
rinpol	2236.00		NIST Webbook
tb	809.46	K	Joback Method
tc	1040.60	K	Joback Method
tf	555.08	K	Joback Method
vc	0.824	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.83	J/mol×K	809.46	Joback Method
cpg	559.01	J/mol×K	847.98	Joback Method
cpg	568.26	J/mol×K	886.51	Joback Method
cpg	576.65	J/mol×K	925.03	Joback Method
cpg	584.24	J/mol×K	963.55	Joback Method
cpg	591.08	J/mol×K	1002.08	Joback Method
cpg	597.23	J/mol×K	1040.60	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407835&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407835&amp;Units=SI</a>
<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>

# 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

Latest version available from:

<https://www.cheméo.com/cid/78-645-0/Benzamide-3-chloro-2-fluoro-N-3-chloro-2-fluorobenzoyl-N-methyl.pdf>

Generated by Cheméo on 2024-04-30 04:44:57.484360684 +0000 UTC m=+16741546.404937995.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.