

# 2-Methylamino-5-chloro-2'-fluorobenzophenone

<b>Inchi:</b>	InChI=1S/C14H11ClFNO/c1-17-13-7-6-9(15)8-11(13)14(18)10-4-2-3-5-12(10)16/h2-8,17
<b>InchiKey:</b>	ULELQOJFPCDNFG-UHFFFAOYSA-N
<b>Formula:</b>	C14H11ClFNO
<b>SMILES:</b>	CNc1ccc(Cl)cc1C(=O)c1ccccc1F
<b>Mol. weight [g/mol]:</b>	263.69

## Physical Properties

Property code	Value	Unit	Source
gf	16.66	kJ/mol	Joback Method
hf	-164.60	kJ/mol	Joback Method
hfus	32.91	kJ/mol	Joback Method
hvap	70.05	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	3.752		Crippen Method
mcvol	186.160	ml/mol	McGowan Method
pc	2627.15	kPa	Joback Method
rinpol	2060.00		NIST Webbook
rinpol	2055.00		NIST Webbook
tb	728.76	K	Joback Method
tc	966.39	K	Joback Method
tf	471.04	K	Joback Method
vc	0.712	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	469.61	J/mol×K	728.76	Joback Method
cpg	482.13	J/mol×K	768.36	Joback Method
cpg	493.62	J/mol×K	807.97	Joback Method
cpg	504.15	J/mol×K	847.57	Joback Method
cpg	513.77	J/mol×K	887.18	Joback Method
cpg	522.54	J/mol×K	926.78	Joback Method
cpg	530.51	J/mol×K	966.39	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=R66764&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R66764&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>hvap:</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>rinpola:</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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