

# 2,5-Diamino-2'-fluorobenzophenone

<b>Other names:</b>	2,5-Diamino-2'-fluor-benzophenone Benzophenone, 2,5-diamino-2'-fluoro
<b>Inchi:</b>	InChI=1S/C13H11FN2O/c14-11-4-2-1-3-9(11)13(17)10-7-8(15)5-6-12(10)16/h1-7H,15-16
<b>InchiKey:</b>	OKCCYEPCUCOYDR-UHFFFAOYSA-N
<b>Formula:</b>	C13H11FN2O
<b>SMILES:</b>	<chem>Nc1ccc(N)c(C(=O)c2ccccc2F)c1</chem>
<b>Mol. weight [g/mol]:</b>	230.24
<b>CAS:</b>	67739-74-6

## Physical Properties

Property code	Value	Unit	Source
gf	63.68	kJ/mol	Joback Method
hf	-114.11	kJ/mol	Joback Method
hfus	31.41	kJ/mol	Joback Method
hvap	78.28	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	2.221		Crippen Method
mcvol	169.810	ml/mol	McGowan Method
pc	3392.03	kPa	Joback Method
rinpol	2188.00		NIST Webbook
rinpol	2152.00		NIST Webbook
rinpol	2188.00		NIST Webbook
rinpol	2152.00		NIST Webbook
tb	763.34	K	Joback Method
tc	1016.00	K	Joback Method
tf	543.71	K	Joback Method
vc	0.629	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	458.57	J/molxK	763.34	Joback Method
cpg	470.29	J/molxK	805.45	Joback Method
cpg	480.97	J/molxK	847.56	Joback Method

cpg	490.67	J/mol×K	889.67	Joback Method
cpg	499.45	J/mol×K	931.78	Joback Method
cpg	507.37	J/mol×K	973.89	Joback Method
cpg	514.48	J/mol×K	1016.00	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=C67739746&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C67739746&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>

## 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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