

# Benzophenone, 2-amino-2'-fluoro-5-nitro

<b>Other names:</b>	2-amino-5-nitro-2'-fluorobenzophenone 2-Amino-2'-fluoro-5-nitrobenzophenone
<b>Inchi:</b>	InChI=1S/C13H9FN2O3/c14-11-4-2-1-3-9(11)13(17)10-7-8(16(18)19)5-6-12(10)15/h1-7H
<b>InchiKey:</b>	ZTEHQPVGEHUXHI-UHFFFAOYSA-N
<b>Formula:</b>	C13H9FN2O3
<b>SMILES:</b>	<chem>Nc1ccc([N+](=O)[O-])cc1C(=O)c1ccccc1F</chem>
<b>Mol. weight [g/mol]:</b>	260.22
<b>CAS:</b>	344-80-9

## Physical Properties

Property code	Value	Unit	Source
gf	32.78	kJ/mol	Joback Method
hf	-158.66	kJ/mol	Joback Method
hfus	37.58	kJ/mol	Joback Method
hvap	84.23	kJ/mol	Joback Method
log10ws	-4.05		Crippen Method
logp	2.547		Crippen Method
mcvol	177.250	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
rinpol	2401.00		NIST Webbook
rinpol	2363.00		NIST Webbook
rinpol	2335.00		NIST Webbook
rinpol	2401.00		NIST Webbook
rinpol	2344.00		NIST Webbook
rinpol	2335.00		NIST Webbook
rinpol	2363.00		NIST Webbook
tb	842.65	K	Joback Method
tc	1107.48	K	Joback Method
tf	604.06	K	Joback Method
vc	0.682	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	490.76	J/mol×K	842.65	Joback Method
cpg	500.87	J/mol×K	886.79	Joback Method
cpg	509.92	J/mol×K	930.93	Joback Method
cpg	517.98	J/mol×K	975.06	Joback Method
cpg	525.13	J/mol×K	1019.20	Joback Method
cpg	531.45	J/mol×K	1063.34	Joback Method
cpg	537.01	J/mol×K	1107.48	Joback Method

## Sources

<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=C344809&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C344809&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>rinpol:</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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