

# 2-amino-3-hydroxy-5-chloro-benzophenone

<b>Other names:</b>	Benzophenone, 2-amino-5-chloro-3-hydroxy
<b>Inchi:</b>	InChI=1S/C13H10ClNO2/c14-9-6-10(12(15)11(16)7-9)13(17)8-4-2-1-3-5-8/h1-7,16H,15H
<b>InchiKey:</b>	XJFFXSCDIWNOAH-UHFFFAOYSA-N
<b>Formula:</b>	C13H10ClNO2
<b>SMILES:</b>	<chem>Nc1c(O)cc(Cl)cc1C(=O)c1ccccc1</chem>
<b>Mol. weight [g/mol]:</b>	247.68

## Physical Properties

Property code	Value	Unit	Source
gf	35.12	kJ/mol	Joback Method
hf	-133.37	kJ/mol	Joback Method
hfus	33.51	kJ/mol	Joback Method
hvap	85.19	kJ/mol	Joback Method
log10ws	-3.30		Crippen Method
logp	2.859		Crippen Method
mcvol	176.170	ml/mol	McGowan Method
pc	3896.50	kPa	Joback Method
rinpol	2360.00		NIST Webbook
rinpol	2390.00		NIST Webbook
rinpol	2390.00		NIST Webbook
rinpol	2382.00		NIST Webbook
rinpol	2360.00		NIST Webbook
tb	804.61	K	Joback Method
tc	1071.58	K	Joback Method
tf	588.98	K	Joback Method
vc	0.598	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	460.08	J/molxK	804.61	Joback Method
cpg	470.74	J/molxK	849.11	Joback Method
cpg	480.70	J/molxK	893.60	Joback Method
cpg	490.10	J/molxK	938.10	Joback Method

cpg	499.11	J/mol×K	982.59	Joback Method
cpg	507.87	J/mol×K	1027.09	Joback Method
cpg	516.54	J/mol×K	1071.58	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=R17547&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R17547&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>mvol:</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

Latest version available from:

<https://www.chemeo.com/cid/118-757-1/2-amino-3-hydroxy-5-chloro-benzophenone.pdf>

Generated by Cheméo on 2024-05-06 20:23:00.366687671 +0000 UTC m=+17316229.287264984.

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