

# Benzophenone, 2,5-diamino-2'-chloro-

<b>Other names:</b>	Benzophenone, 2'-chloro-2,5-diamino
<b>Inchi:</b>	InChI=1S/C13H11ClN2O/c14-11-4-2-1-3-9(11)13(17)10-7-8(15)5-6-12(10)16/h1-7H,15-1
<b>InchiKey:</b>	HMTGFGCXWOUKTO-UHFFFAOYSA-N
<b>Formula:</b>	C13H11ClN2O
<b>SMILES:</b>	<chem>Nc1ccc(N)c(C(=O)c2ccccc2Cl)c1</chem>
<b>Mol. weight [g/mol]:</b>	246.69
<b>CAS:</b>	58479-51-9

## Physical Properties

Property code	Value	Unit	Source
gf	246.56	kJ/mol	Joback Method
hf	66.26	kJ/mol	Joback Method
hfus	32.53	kJ/mol	Joback Method
hvap	83.48	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	2.735		Crippen Method
mcvol	180.280	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
rinpol	2345.00		NIST Webbook
rinpol	2345.00		NIST Webbook
rinpol	2345.00		NIST Webbook
rinpol	2330.00		NIST Webbook
tb	801.50	K	Joback Method
tc	1067.22	K	Joback Method
tf	573.04	K	Joback Method
vc	0.660	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.21	J/mol×K	801.50	Joback Method
cpg	482.31	J/mol×K	845.79	Joback Method
cpg	492.34	J/mol×K	890.07	Joback Method
cpg	501.37	J/mol×K	934.36	Joback Method

cpg	509.47	J/mol×K	978.65	Joback Method
cpg	516.72	J/mol×K	1022.94	Joback Method
cpg	523.20	J/mol×K	1067.22	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C58479519&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C58479519&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>
<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>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

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