

# 5-Chloro-2'-fluoro-2-hydroxyethylaminobenzophenone

<b>Other names:</b>	2-Hydroxyethylamino-5-chlor-2'-fluor-benzophenone
<b>Inchi:</b>	InChI=1S/C15H13ClFNO2/c16-10-5-6-14(18-7-8-19)12(9-10)15(20)11-3-1-2-4-13(11)17/
<b>InchiKey:</b>	CKDXNSUKTLFLRM-UHFFFAOYSA-N
<b>Formula:</b>	C15H13ClFNO2
<b>SMILES:</b>	O=C(c1ccccc1F)c1cc(Cl)ccc1NCCO
<b>Mol. weight [g/mol]:</b>	293.72
<b>CAS:</b>	35231-38-0

## Physical Properties

Property code	Value	Unit	Source
gf	-111.74	kJ/mol	Joback Method
hf	-337.47	kJ/mol	Joback Method
hfus	39.58	kJ/mol	Joback Method
hvap	88.95	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.114		Crippen Method
mcvol	206.120	ml/mol	McGowan Method
pc	2616.41	kPa	Joback Method
rinpol	2500.00		NIST Webbook
rinpol	2500.00		NIST Webbook
tb	843.82	K	Joback Method
tc	1063.39	K	Joback Method
tf	543.13	K	Joback Method
vc	0.786	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.07	J/molxK	843.82	Joback Method
cpg	579.21	J/molxK	880.41	Joback Method
cpg	588.54	J/molxK	917.01	Joback Method
cpg	597.10	J/molxK	953.60	Joback Method
cpg	604.95	J/molxK	990.20	Joback Method
cpg	612.14	J/molxK	1026.79	Joback Method

## Sources

<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=C35231380&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35231380&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>
<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>

## 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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