

# 2,3-Difluorobenzophenone

<b>Inchi:</b>	InChI=1S/C13H8F2O/c14-11-8-4-7-10(12(11)15)13(16)9-5-2-1-3-6-9/h1-8H
<b>InchiKey:</b>	BWQOPMJTQPWHOZ-UHFFFAOYSA-N
<b>Formula:</b>	C13H8F2O
<b>SMILES:</b>	O=C(c1ccccc1)c1cccc(F)c1F
<b>Mol. weight [g/mol]:</b>	218.20
<b>CAS:</b>	208173-20-0

## Physical Properties

Property code	Value	Unit	Source
gf	-254.40	kJ/mol	Joback Method
hf	-366.33	kJ/mol	Joback Method
hfus	24.49	kJ/mol	Joback Method
hvap	55.52	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.196		Crippen Method
mcvol	151.620	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
tb	612.57	K	Joback Method
tc	842.48	K	Joback Method
tf	365.26	K	Joback Method
vc	0.590	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	356.92	J/molxK	612.57	Joback Method
cpg	370.06	J/molxK	650.89	Joback Method
cpg	382.19	J/molxK	689.21	Joback Method
cpg	393.39	J/molxK	727.52	Joback Method
cpg	403.68	J/molxK	765.84	Joback Method
cpg	413.13	J/molxK	804.16	Joback Method
cpg	421.79	J/molxK	842.48	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=C208173200&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C208173200&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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