

# 2-Fluoro-6-(trifluoromethyl)benzophenone

<b>Inchi:</b>	InChI=1S/C14H8F4O/c15-11-8-4-7-10(14(16,17)18)12(11)13(19)9-5-2-1-3-6-9/h1-8H
<b>InchiKey:</b>	GZERPYYCCZRGZNF-UHFFFAOYSA-N
<b>Formula:</b>	C14H8F4O
<b>SMILES:</b>	O=C(c1ccccc1)c1c(F)cccc1C(F)(F)F
<b>Mol. weight [g/mol]:</b>	268.21
<b>CAS:</b>	208173-18-6

## Physical Properties

Property code	Value	Unit	Source
gf	-632.76	kJ/mol	Joback Method
hf	-787.94	kJ/mol	Joback Method
hfus	25.82	kJ/mol	Joback Method
hvap	54.82	kJ/mol	Joback Method
log10ws	-4.86		Crippen Method
logp	4.075		Crippen Method
mcvol	169.250	ml/mol	McGowan Method
pc	2431.44	kPa	Joback Method
tb	630.76	K	Joback Method
tc	848.27	K	Joback Method
tf	380.13	K	Joback Method
vc	0.670	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	425.04	J/molxK	630.76	Joback Method
cpg	438.06	J/molxK	667.01	Joback Method
cpg	450.03	J/molxK	703.26	Joback Method
cpg	461.02	J/molxK	739.52	Joback Method
cpg	471.09	J/molxK	775.77	Joback Method
cpg	480.32	J/molxK	812.02	Joback Method
cpg	488.77	J/molxK	848.27	Joback Method

# Sources

<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>
<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=C208173186&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C208173186&amp;Units=SI</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>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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