

# «alpha»-Chloro-4'-fluoropropiophenone

<b>Inchi:</b>	InChI=1S/C9H8ClFO/c1-6(10)9(12)7-2-4-8(11)5-3-7/h2-6H,1H3
<b>InchiKey:</b>	AGQLOTJUTCKLOE-UHFFFAOYSA-N
<b>Formula:</b>	C9H8ClFO
<b>SMILES:</b>	CC(Cl)C(=O)c1ccc(F)cc1
<b>Mol. weight [g/mol]:</b>	186.61
<b>CAS:</b>	81112-09-6

## Physical Properties

Property code	Value	Unit	Source
gf	-210.42	kJ/mol	Joback Method
hf	-333.74	kJ/mol	Joback Method
hfus	18.07	kJ/mol	Joback Method
hvap	48.49	kJ/mol	Joback Method
log10ws	-3.15		Crippen Method
logp	2.636		Crippen Method
mcvol	129.490	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
tb	527.11	K	Joback Method
tc	745.30	K	Joback Method
tf	295.57	K	Joback Method
vc	0.498	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	267.15	J/molxK	527.11	Joback Method
cpg	278.62	J/molxK	563.48	Joback Method
cpg	289.35	J/molxK	599.84	Joback Method
cpg	299.37	J/molxK	636.21	Joback Method
cpg	308.71	J/molxK	672.57	Joback Method
cpg	317.40	J/molxK	708.94	Joback Method
cpg	325.46	J/molxK	745.30	Joback Method

# Sources

<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=C81112096&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C81112096&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>

# 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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