

# 1-Butanone, 4-chloro-1-(4-fluorophenyl)-

<b>Other names:</b>	«gamma»-Chloro-p-fluorobutyrophenone 3-Chloropropyl 4'-fluorophenyl ketone «omega»-Chloro-4-fluorobutyrophenone «gamma»-Chloro-4-fluorobutyrophenone «omega»-Chloro-p-fluorobutyrophenone p-Fluoro-«gamma»-chlorobutyrophenone p-Fluoro-«omega»-chlorobutyrophenone p-Fluoro-4-chlorobutyrophenone p-Fluorobenzoylpropyl chloride Butyrophenone, 4-chloro-4'-fluoro- 3-(p-Fluorobenzoyl)propyl chloride 3-(4-Fluorobenzoyl)propyl chloride 3-Chloro-4'-fluorobutyrophenone 3-Chloropropyl 4-fluorophenyl ketone 4-(p-Fluorophenyl)-4-oxobutyl chloride 4-(4-Fluorophenyl)-4-oxobutyl chloride 4-Chloro-p-fluorobutyrophenone 4-Chloro-4'-fluorobutyrophenone 4-Fluorobenzoylpropyl chloride 4'-Fluoro-4-chlorobutyrophenone NSC 87082
<b>Inchi:</b>	InChI=1S/C10H10ClFO/c11-7-1-2-10(13)8-3-5-9(12)6-4-8/h3-6H,1-2,7H2
<b>InchiKey:</b>	HXAOUYGZEOZTJO-UHFFFAOYSA-N
<b>Formula:</b>	C10H10ClFO
<b>SMILES:</b>	O=C(CCCCl)c1ccc(F)cc1
<b>Mol. weight [g/mol]:</b>	200.64
<b>CAS:</b>	3874-54-2

## Physical Properties

Property code	Value	Unit	Source
gf	-199.56	kJ/mol	Joback Method
hf	-349.10	kJ/mol	Joback Method
hfus	24.18	kJ/mol	Joback Method
hvap	51.11	kJ/mol	Joback Method
log10ws	-3.45		Crippen Method
logp	3.027		Crippen Method

mvol	143.580	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
tb	550.43	K	Joback Method
tc	760.36	K	Joback Method
tf	321.84	K	Joback Method
vc	0.560	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.95	J/mol×K	550.43	Joback Method
cpg	323.04	J/mol×K	585.42	Joback Method
cpg	334.40	J/mol×K	620.41	Joback Method
cpg	345.04	J/mol×K	655.40	Joback Method
cpg	354.99	J/mol×K	690.39	Joback Method
cpg	364.30	J/mol×K	725.38	Joback Method
cpg	372.99	J/mol×K	760.36	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=C3874542&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3874542&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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> 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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