

# 2-Chloro-6-fluorophenol

<b>Other names:</b>	Phenol, 2-chloro-6-fluoro-
<b>Inchi:</b>	InChI=1S/C6H4ClFO/c7-4-2-1-3-5(8)6(4)9/h1-3,9H
<b>InchiKey:</b>	QIAQIYQASAWZPP-UHFFFAOYSA-N
<b>Formula:</b>	C6H4ClFO
<b>SMILES:</b>	Oc1c(F)cccc1Cl
<b>Mol. weight [g/mol]:</b>	146.55
<b>CAS:</b>	2040-90-6

## Physical Properties

Property code	Value	Unit	Source
gf	-258.94	kJ/mol	Joback Method
hf	-331.27	kJ/mol	Joback Method
hfus	18.01	kJ/mol	Joback Method
hvap	48.47	kJ/mol	Joback Method
log10ws	-2.04		Crippen Method
logp	2.185		Crippen Method
mcvol	91.520	ml/mol	McGowan Method
pc	5022.80	kPa	Joback Method
rinpol	1061.70		NIST Webbook
tb	485.66	K	Joback Method
tc	713.84	K	Joback Method
tf	338.55	K	Joback Method
vc	0.296	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	175.28	J/mol×K	485.66	Joback Method
cpg	182.99	J/mol×K	523.69	Joback Method
cpg	190.04	J/mol×K	561.72	Joback Method
cpg	196.47	J/mol×K	599.75	Joback Method
cpg	202.38	J/mol×K	637.78	Joback Method
cpg	207.82	J/mol×K	675.81	Joback Method
cpg	212.86	J/mol×K	713.84	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2040906&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2040906&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>
<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>

# 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>hvp:</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>rinp:</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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