

# Phenol, 3-fluoro-4-nitro-

<b>Other names:</b>	3-Fluoro-4-nitrophenol
<b>Inchi:</b>	InChI=1S/C6H4FNO3/c7-5-3-4(9)1-2-6(5)8(10)11/h1-3,9H
<b>InchiKey:</b>	CSSGKHVRDGATJL-UHFFFAOYSA-N
<b>Formula:</b>	C6H4FNO3
<b>SMILES:</b>	O=[N+]([O-])c1ccc(O)cc1F
<b>Mol. weight [g/mol]:</b>	157.10
<b>CAS:</b>	394-41-2

## Physical Properties

Property code	Value	Unit	Source
gf	-211.46	kJ/mol	Joback Method
hf	-326.29	kJ/mol	Joback Method
hfus	25.17	kJ/mol	Joback Method
hvap	60.68	kJ/mol	Joback Method
log10ws	-2.00		Crippen Method
logp	1.439		Crippen Method
mcvol	96.700	ml/mol	McGowan Method
pc	5390.71	kPa	Joback Method
tb	600.07	K	Joback Method
tc	852.64	K	Joback Method
tf	452.24	K	Joback Method
vc	0.330	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.12	J/molxK	600.07	Joback Method
cpg	234.01	J/molxK	642.17	Joback Method
cpg	241.21	J/molxK	684.26	Joback Method
cpg	247.81	J/molxK	726.36	Joback Method
cpg	253.92	J/molxK	768.45	Joback Method
cpg	259.63	J/molxK	810.55	Joback Method
cpg	265.04	J/molxK	852.64	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=C394412&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C394412&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>

# 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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