

# Phenol, 2,6-dinitro-4-fluoro-

<b>Inchi:</b>	InChI=1S/C6H3FN2O5/c7-3-1-4(8(11)12)6(10)5(2-3)9(13)14/h1-2,10H
<b>InchiKey:</b>	MDOWEUXXLVBZIU-UHFFFAOYSA-N
<b>Formula:</b>	C6H3FN2O5
<b>SMILES:</b>	O=[N+]([O-])c1cc(F)cc([N+](=O)[O-])c1O
<b>Mol. weight [g/mol]:</b>	202.10
<b>CAS:</b>	364-32-9

## Physical Properties

Property code	Value	Unit	Source
gf	-185.54	kJ/mol	Joback Method
hf	-348.52	kJ/mol	Joback Method
hfus	36.14	kJ/mol	Joback Method
hvap	77.93	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	1.348		Crippen Method
mcvol	114.120	ml/mol	McGowan Method
pc	5367.04	kPa	Joback Method
tb	756.89	K	Joback Method
tc	1030.09	K	Joback Method
tf	608.37	K	Joback Method
vc	0.411	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	293.53	J/molxK	756.89	Joback Method
cpg	300.38	J/molxK	802.42	Joback Method
cpg	306.76	J/molxK	847.96	Joback Method
cpg	312.79	J/molxK	893.49	Joback Method
cpg	318.60	J/molxK	939.02	Joback Method
cpg	324.29	J/molxK	984.56	Joback Method
cpg	330.00	J/molxK	1030.09	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=C364329&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C364329&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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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