

# 4-Nitroguaiacol

<b>Other names:</b>	Phenol, 2-methoxy-4-nitro- Guaiacol, 4-nitro- Phenol, o-methoxy-p-nitro- 2-Methoxy-4-nitrophenol 3-Nitro-6-hydroxyanisole 4-Hydroxy-3-methoxynitrobenzene o-Methoxy-p-nitrophenol
<b>Inchi:</b>	InChI=1S/C7H7NO4/c1-12-7-4-5(8(10)11)2-3-6(7)9/h2-4,9H,1H3
<b>InchiKey:</b>	IZLVFLOBTPURLP-UHFFFAOYSA-N
<b>Formula:</b>	C7H7NO4
<b>SMILES:</b>	COc1cc([N+](=O)[O-])ccc1O
<b>Mol. weight [g/mol]:</b>	169.13
<b>CAS:</b>	3251-56-7

## Physical Properties

Property code	Value	Unit	Source
gf	-113.23	kJ/mol	Joback Method
hf	-283.04	kJ/mol	Joback Method
hfus	25.87	kJ/mol	Joback Method
hsub	99.40 ± 2.00	kJ/mol	NIST Webbook
hvap	66.13	kJ/mol	Joback Method
log10ws	-1.79		Crippen Method
logp	1.309		Crippen Method
mvol	114.890	ml/mol	McGowan Method
pc	4890.21	kPa	Joback Method
tb	646.10	K	Joback Method
tc	901.50	K	Joback Method
tf	485.15	K	Joback Method
vc	0.386	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.54	J/mol×K	646.10	Joback Method

cpg	292.99	J/mol×K	688.67	Joback Method
cpg	301.75	J/mol×K	731.23	Joback Method
cpg	309.89	J/mol×K	773.80	Joback Method
cpg	317.50	J/mol×K	816.36	Joback Method
cpg	324.65	J/mol×K	858.93	Joback Method
cpg	331.41	J/mol×K	901.50	Joback Method
hfust	21.69	kJ/mol	374.40	NIST Webbook

## Sources

<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=C3251567&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3251567&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>

## 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>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation 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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