

# 5-Ethyl-5-(4-hydroxyphenyl) hydantoin

<b>Inchi:</b>	InChI=1S/C11H12N2O3/c1-2-11(9(15)12-10(16)13-11)7-3-5-8(14)6-4-7/h3-6,14H,2H2,1H
<b>InchiKey:</b>	LZFIVJCLUUNXKT-UHFFFAOYSA-N
<b>Formula:</b>	C11H12N2O3
<b>SMILES:</b>	CCC1(c2ccc(O)cc2)NC(=O)NC1=O
<b>Mol. weight [g/mol]:</b>	220.22
<b>CAS:</b>	61837-66-9

## Physical Properties

Property code	Value	Unit	Source
gf	-39.17	kJ/mol	Joback Method
hf	-335.21	kJ/mol	Joback Method
hfus	29.91	kJ/mol	Joback Method
hvap	76.49	kJ/mol	Joback Method
log10ws	-2.05		Crippen Method
logp	0.837		Crippen Method
mcvol	160.200	ml/mol	McGowan Method
pc	4762.81	kPa	Joback Method
tb	806.64	K	Joback Method
tc	1090.02	K	Joback Method
tf	733.17	K	Joback Method
vc	0.536	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	477.95	J/molxK	806.64	Joback Method
cpg	493.96	J/molxK	853.87	Joback Method
cpg	509.60	J/molxK	901.10	Joback Method
cpg	525.07	J/molxK	948.33	Joback Method
cpg	540.58	J/molxK	995.56	Joback Method
cpg	556.34	J/molxK	1042.79	Joback Method
cpg	572.55	J/molxK	1090.02	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C61837669&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C61837669&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>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>mccvol:</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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