

# (2-Penten-2-yl) hydantoin

<b>Inchi:</b>	InChI=1S/C8H12N2O2/c1-3-4-5(2)6-7(11)10-8(12)9-6/h4,6H,3H2,1-2H3,(H2,9,10,11,12)
<b>InchiKey:</b>	LXWBZEGLILLACN-SNAWJCMRSA-N
<b>Formula:</b>	C8H12N2O2
<b>SMILES:</b>	CCC=C(C)C1NC(=O)NC1=O
<b>Mol. weight [g/mol]:</b>	168.19
<b>CAS:</b>	116435-47-3

## Physical Properties

Property code	Value	Unit	Source
gf	54.94	kJ/mol	Joback Method
hf	-240.32	kJ/mol	Joback Method
hfus	27.50	kJ/mol	Joback Method
hvap	55.71	kJ/mol	Joback Method
log10ws	-1.94		Crippen Method
logp	0.551		Crippen Method
mcvol	131.520	ml/mol	McGowan Method
pc	3768.41	kPa	Joback Method
tb	634.50	K	Joback Method
tc	884.84	K	Joback Method
tf	518.28	K	Joback Method
vc	0.493	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	341.49	J/molxK	634.50	Joback Method
cpg	357.26	J/molxK	676.22	Joback Method
cpg	372.13	J/molxK	717.95	Joback Method
cpg	386.06	J/molxK	759.67	Joback Method
cpg	398.98	J/molxK	801.40	Joback Method
cpg	410.86	J/molxK	843.12	Joback Method
cpg	421.63	J/molxK	884.84	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=C116435473&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116435473&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>

# 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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