

# 5-Cyclopropyl-5-methylhydantoin

<b>Inchi:</b>	InChI=1S/C7H10N2O2/c1-7(4-2-3-4)5(10)8-6(11)9-7/h4H,2-3H2,1H3,(H2,8,9,10,11)
<b>InchiKey:</b>	NSJNDFMJXLKSSR-UHFFFAOYSA-N
<b>Formula:</b>	C7H10N2O2
<b>SMILES:</b>	CC1(C2CC2)NC(=O)NC1=O
<b>Mol. weight [g/mol]:</b>	154.17
<b>CAS:</b>	5470-46-2

## Physical Properties

Property code	Value	Unit	Source
gf	30.11	kJ/mol	Joback Method
hf	-239.07	kJ/mol	Joback Method
hfus	17.86	kJ/mol	Joback Method
hvap	52.20	kJ/mol	Joback Method
log10ws	-1.32		Crippen Method
logp	-0.006		Crippen Method
mcvol	110.870	ml/mol	McGowan Method
pc	4994.44	kPa	Joback Method
tb	614.56	K	Joback Method
tc	884.43	K	Joback Method
tf	567.89	K	Joback Method
vc	0.411	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.48	J/molxK	614.56	Joback Method
cpg	311.96	J/molxK	659.54	Joback Method
cpg	326.64	J/molxK	704.52	Joback Method
cpg	340.64	J/molxK	749.50	Joback Method
cpg	354.06	J/molxK	794.47	Joback Method
cpg	367.05	J/molxK	839.45	Joback Method
cpg	379.70	J/molxK	884.43	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5470462&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5470462&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>
<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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