

# Tricyclo[3.3.1.1(3,7)]decanone, 6-hydroxy-

<b>Other names:</b>	6-Hydroxyadamantan-2-one
<b>Inchi:</b>	InChI=1S/C10H14O2/c11-9-5-1-6-3-8(9)4-7(2-5)10(6)12/h5-9,11H,1-4H2
<b>InchiKey:</b>	GHMGTAKCWHCTPS-UHFFFAOYSA-N
<b>Formula:</b>	C10H14O2
<b>SMILES:</b>	O=C1C2CC3CC1CC(C2)C3O
<b>Mol. weight [g/mol]:</b>	166.22
<b>CAS:</b>	67092-78-8

## Physical Properties

Property code	Value	Unit	Source
gf	-71.36	kJ/mol	Joback Method
hf	-368.10	kJ/mol	Joback Method
hfus	19.70	kJ/mol	Joback Method
hvap	58.07	kJ/mol	Joback Method
log10ws	-1.38		Crippen Method
logp	0.982		Crippen Method
mcvol	126.620	ml/mol	McGowan Method
pc	3452.08	kPa	Joback Method
tb	603.35	K	Joback Method
tc	816.48	K	Joback Method
tf	373.32	K	Joback Method
vc	0.482	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.98	J/mol×K	603.35	Joback Method
cpg	390.10	J/mol×K	638.87	Joback Method
cpg	405.22	J/mol×K	674.39	Joback Method
cpg	419.39	J/mol×K	709.91	Joback Method
cpg	432.69	J/mol×K	745.44	Joback Method
cpg	445.16	J/mol×K	780.96	Joback Method
cpg	456.86	J/mol×K	816.48	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=C67092788&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C67092788&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>

# 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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