

# 4-Hydroxypiperitone

<b>Inchi:</b>	InChI=1S/C10H18O2/c1-6(2)8-5-9(11)7(3)4-10(8)12/h6-9,11H,4-5H2,1-3H3
<b>InchiKey:</b>	NCNOFEZLRJLBDH-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O2
<b>SMILES:</b>	CC(C)C1CC(O)C(C)CC1=O
<b>Mol. weight [g/mol]:</b>	170.25

## Physical Properties

Property code	Value	Unit	Source
gf	-219.50	kJ/mol	Joback Method
hf	-531.30	kJ/mol	Joback Method
hfus	15.71	kJ/mol	Joback Method
hvap	58.20	kJ/mol	Joback Method
log10ws	-1.83		Crippen Method
logp	1.619		Crippen Method
mcvol	148.340	ml/mol	McGowan Method
pc	2758.46	kPa	Joback Method
ripol	1280.00		NIST Webbook
ripol	1946.00		NIST Webbook
ripol	1946.00		NIST Webbook
ripol	1937.00		NIST Webbook
tb	597.97	K	Joback Method
tc	800.77	K	Joback Method
tf	315.40	K	Joback Method
vc	0.546	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	405.78	J/molxK	597.97	Joback Method
cpg	422.74	J/molxK	631.77	Joback Method
cpg	438.88	J/molxK	665.57	Joback Method
cpg	454.18	J/molxK	699.37	Joback Method
cpg	468.64	J/molxK	733.17	Joback Method
cpg	482.24	J/molxK	766.97	Joback Method

## Sources

<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=R162911&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R162911&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<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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