

# 2-Cyclopenten-1-one, 2-hydroxy-4-ethyl-3-methyl

Other names:	4-Ethyl-3-methyl-2-hydroxycyclopent-2-en-1-one 4-Ethyl-3-methyl-2-hydroxy-2-cyclopenten-1-one 2-Cyclopenten-1-one, 4-ethyl-2-hydroxy-3-methyl
Inchi:	InChI=1S/C8H12O2/c1-3-6-4-7(9)8(10)5(6)2/h6,10H,3-4H2,1-2H3
InchiKey:	FFJYTCCZZSZBGQ-UHFFFAOYSA-N
Formula:	C8H12O2
SMILES:	CCC1CC(=O)C(O)=C1C
Mol. weight [g/mol]:	140.18
CAS:	71387-71-8

## Physical Properties

Property code	Value	Unit	Source
gf	-195.68	kJ/mol	Joback Method
hf	-403.06	kJ/mol	Joback Method
hfus	14.45	kJ/mol	Joback Method
hvap	56.20	kJ/mol	Joback Method
log10ws	-1.78		Crippen Method
logp	1.817		Crippen Method
mcvol	115.860	ml/mol	McGowan Method
pc	3572.80	kPa	Joback Method
rinpol	1154.00		NIST Webbook
rinpol	1154.00		NIST Webbook
ripol	1845.00		NIST Webbook
ripol	1845.00		NIST Webbook
ripol	1845.00		NIST Webbook
tb	566.84	K	Joback Method
tc	768.88	K	Joback Method
tf	345.66	K	Joback Method
vc	0.436	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.61	J/mol×K	566.84	Joback Method

cpg	295.46	J/mol×K	600.51	Joback Method
cpg	306.81	J/mol×K	634.19	Joback Method
cpg	317.65	J/mol×K	667.86	Joback Method
cpg	327.96	J/mol×K	701.53	Joback Method
cpg	337.75	J/mol×K	735.21	Joback Method
cpg	347.01	J/mol×K	768.88	Joback Method

## Sources

<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=C71387718&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C71387718&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>

## 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>ripol:</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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