

# 2-Cyclopenten-1-one, 3-ethyl-

<b>Other names:</b>	3-Ethyl-2-cyclopenten-1-one
<b>Inchi:</b>	InChI=1S/C7H10O/c1-2-6-3-4-7(8)5-6/h5H,2-4H2,1H3
<b>InchiKey:</b>	XHAHAEVXYYITIQ-UHFFFAOYSA-N
<b>Formula:</b>	C7H10O
<b>SMILES:</b>	CCC1=CC(=O)CC1
<b>Mol. weight [g/mol]:</b>	110.15
<b>CAS:</b>	5682-69-9

## Physical Properties

Property code	Value	Unit	Source
gf	-49.94	kJ/mol	Joback Method
hf	-198.38	kJ/mol	Joback Method
hfus	7.09	kJ/mol	Joback Method
hvap	36.94	kJ/mol	Joback Method
log10ws	-1.78		Crippen Method
logp	1.686		Crippen Method
mcvol	95.900	ml/mol	McGowan Method
pc	3805.69	kPa	Joback Method
rinpol	1029.00		NIST Webbook
rinpol	1029.00		NIST Webbook
ripol	1611.00		NIST Webbook
ripol	1550.00		NIST Webbook
ripol	1550.00		NIST Webbook
ripol	1611.00		NIST Webbook
tb	451.47	K	Joback Method
tc	670.37	K	Joback Method
tf	265.29	K	Joback Method
vc	0.362	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.39	J/molxK	451.47	Joback Method
cpg	202.95	J/molxK	487.95	Joback Method

cpg	214.96	J/mol×K	524.44	Joback Method
cpg	226.42	J/mol×K	560.92	Joback Method
cpg	237.33	J/mol×K	597.40	Joback Method
cpg	247.70	J/mol×K	633.88	Joback Method
cpg	257.52	J/mol×K	670.37	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5682699&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5682699&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>
<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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>ripola:</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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