

# 5-Ethylcyclopent-2-en-1-one

<b>Inchi:</b>	InChI=1S/C7H10O/c1-2-6-4-3-5-7(6)8/h3,5-6H,2,4H2,1H3
<b>InchiKey:</b>	ZUWLMAOLTHLUHS-UHFFFAOYSA-N
<b>Formula:</b>	C7H10O
<b>SMILES:</b>	CCC1CC=CC1=O
<b>Mol. weight [g/mol]:</b>	110.15

## Physical Properties

Property code	Value	Unit	Source
gf	-48.02	kJ/mol	Joback Method
hf	-207.25	kJ/mol	Joback Method
hfus	8.55	kJ/mol	Joback Method
hvap	35.97	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.542		Crippen Method
mcvol	95.900	ml/mol	McGowan Method
pc	3722.56	kPa	Joback Method
rinpola	966.00		NIST Webbook
tb	441.82	K	Joback Method
tc	658.94	K	Joback Method
tf	248.53	K	Joback Method
vc	0.361	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.63	J/mol×K	441.82	Joback Method
cpg	203.97	J/mol×K	478.01	Joback Method
cpg	216.72	J/mol×K	514.19	Joback Method
cpg	228.89	J/mol×K	550.38	Joback Method
cpg	240.47	J/mol×K	586.57	Joback Method
cpg	251.47	J/mol×K	622.75	Joback Method
cpg	261.89	J/mol×K	658.94	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=R522799&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R522799&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>

# 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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/12-095-3/5-Ethylcyclopent-2-en-1-one.pdf>

Generated by Cheméo on 2024-04-26 14:46:31.527735746 +0000 UTC m=+16432040.448313062.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.