

# 2-Cyclopenten-1-one, 3-(1-methylethyl)-

<b>Inchi:</b>	InChI=1S/C8H12O/c1-6(2)7-3-4-8(9)5-7/h5-6H,3-4H2,1-2H3
<b>InchiKey:</b>	OGHGFNURIXNXEM-UHFFFAOYSA-N
<b>Formula:</b>	C8H12O
<b>SMILES:</b>	CC(C)C1=CC(=O)CC1
<b>Mol. weight [g/mol]:</b>	124.18
<b>CAS:</b>	1619-28-9

## Physical Properties

Property code	Value	Unit	Source
gf	-43.96	kJ/mol	Joback Method
hf	-224.30	kJ/mol	Joback Method
hfus	6.16	kJ/mol	Joback Method
hvap	38.78	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.932		Crippen Method
mcvol	109.990	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
rinpol	1070.00		NIST Webbook
tb	473.91	K	Joback Method
tc	694.76	K	Joback Method
tf	261.56	K	Joback Method
vc	0.412	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.69	J/molxK	473.91	Joback Method
cpg	245.95	J/molxK	510.72	Joback Method
cpg	259.54	J/molxK	547.53	Joback Method
cpg	272.47	J/molxK	584.34	Joback Method
cpg	284.74	J/molxK	621.15	Joback Method
cpg	296.36	J/molxK	657.95	Joback Method
cpg	307.33	J/molxK	694.76	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=C1619289&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1619289&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>
<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>h vap:</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>r in pol:</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.cheméo.com/cid/23-560-4/2-Cyclopenten-1-one-3-1-methylethyl.pdf>

Generated by Cheméo on 2024-04-30 07:35:45.960067007 +0000 UTC m=+16751794.880644320.

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