

# 2-Cyclopenten-1-one, 5-butyl-3-methoxy-

<b>Inchi:</b>	InChI=1S/C10H16O2/c1-3-4-5-8-6-9(12-2)7-10(8)11/h7-8H,3-6H2,1-2H3
<b>InchiKey:</b>	CONTYKWBFDNXFF-UHFFFAOYSA-N
<b>Formula:</b>	C10H16O2
<b>SMILES:</b>	CCCCC1CC(OC)=CC1=O
<b>Mol. weight [g/mol]:</b>	168.23
<b>CAS:</b>	53690-89-4

## Physical Properties

Property code	Value	Unit	Source
gf	-137.39	kJ/mol	Joback Method
hf	-412.86	kJ/mol	Joback Method
hfus	17.12	kJ/mol	Joback Method
hvap	45.72	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.296		Crippen Method
mcvol	144.040	ml/mol	McGowan Method
pc	2605.74	kPa	Joback Method
rinpol	1156.00		NIST Webbook
rinpol	1156.00		NIST Webbook
tb	537.86	K	Joback Method
tc	744.83	K	Joback Method
tf	317.09	K	Joback Method
vc	0.547	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.57	J/molxK	537.86	Joback Method
cpg	362.58	J/molxK	572.35	Joback Method
cpg	377.92	J/molxK	606.85	Joback Method
cpg	392.57	J/molxK	641.34	Joback Method
cpg	406.52	J/molxK	675.84	Joback Method
cpg	419.77	J/molxK	710.33	Joback Method
cpg	432.31	J/molxK	744.83	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C53690894&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C53690894&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>hvp:</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>rinp:</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

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