

# 4-Butylcyclopenten-3-one

<b>Inchi:</b>	InChI=1S/C9H14O/c1-2-3-5-8-6-4-7-9(8)10/h4,7-8H,2-3,5-6H2,1H3
<b>InchiKey:</b>	TZIXJRCVLIIEA-UHFFFAOYSA-N
<b>Formula:</b>	C9H14O
<b>SMILES:</b>	CCCCC1CC=CC1=O
<b>Mol. weight [g/mol]:</b>	138.21

## Physical Properties

Property code	Value	Unit	Source
gf	-31.18	kJ/mol	Joback Method
hf	-248.53	kJ/mol	Joback Method
hfus	13.73	kJ/mol	Joback Method
hvap	40.42	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.322		Crippen Method
mvol	124.080	ml/mol	McGowan Method
pc	2982.79	kPa	Joback Method
ripol	1599.00		NIST Webbook
ripol	1599.00		NIST Webbook
tb	487.58	K	Joback Method
tc	698.55	K	Joback Method
tf	271.07	K	Joback Method
vc	0.473	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.12	J/mol×K	487.58	Joback Method
cpg	290.82	J/mol×K	522.74	Joback Method
cpg	305.80	J/mol×K	557.90	Joback Method
cpg	320.05	J/mol×K	593.07	Joback Method
cpg	333.59	J/mol×K	628.23	Joback Method
cpg	346.42	J/mol×K	663.39	Joback Method
cpg	358.55	J/mol×K	698.55	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=R548251&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R548251&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>

# 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>	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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