

# 3-Butenylcyclopentane

Inchi:	InChI=1S/C9H16/c1-2-3-6-9-7-4-5-8-9/h2,9H,1,3-8H2
InchiKey:	AAAVTDCFEWFTIY-UHFFFAOYSA-N
Formula:	C9H16
SMILES:	C=CCCC1CCCC1
Mol. weight [g/mol]:	124.22

## Physical Properties

Property code	Value	Unit	Source
gf	149.29	kJ/mol	Joback Method
hf	-43.18	kJ/mol	Joback Method
hfus	11.72	kJ/mol	Joback Method
hvap	35.22	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	3.143		Crippen Method
mvol	122.510	ml/mol	McGowan Method
pc	2890.51	kPa	Joback Method
rinpol	927.00		NIST Webbook
tb	417.28	K	Joback Method
tc	612.60	K	Joback Method
tf	200.33	K	Joback Method
vc	0.462	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.03	J/molxK	417.28	Joback Method
cpg	316.70	J/molxK	580.05	Joback Method
cpg	302.98	J/molxK	547.49	Joback Method
cpg	288.48	J/molxK	514.94	Joback Method
cpg	273.18	J/molxK	482.39	Joback Method
cpg	257.04	J/molxK	449.83	Joback Method
cpg	329.68	J/molxK	612.60	Joback Method
dvisc	0.0003051	Paxs	417.28	Joback Method
dvisc	0.0003834	Paxs	381.12	Joback Method

dvisc	0.0005052	Paxs	344.96	Joback Method
dvisc	0.0007103	Paxs	308.80	Joback Method
dvisc	0.0010930	Paxs	272.65	Joback Method
dvisc	0.0019188	Paxs	236.49	Joback Method
dvisc	0.0041276	Paxs	200.33	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R388935&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R388935&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>rinpol:</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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