

# Bicyclo[2.2.2]oct-2-ene, 5-methyl-, (1«alpha»,4«alpha»,5«beta»)-

Inchi:	InChI=1S/C9H14/c1-7-6-8-2-4-9(7)5-3-8/h2,4,7-9H,3,5-6H2,1H3/t7-,8?,9?/m1/s1
InchiKey:	XOGBWGGJGWDPLQZ-AFPNSQJFSA-N
Formula:	C9H14
SMILES:	CC1CC2C=CC1CC2
Mol. weight [g/mol]:	122.21
CAS:	14803-42-0

## Physical Properties

Property code	Value	Unit	Source
gf	144.45	kJ/mol	Joback Method
hf	-1.00 ± 4.20	kJ/mol	NIST Webbook
hfus	13.43	kJ/mol	Joback Method
hvap	35.78	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.609		Crippen Method
mcvol	111.650	ml/mol	McGowan Method
pc	3195.54	kPa	Joback Method
tb	421.83	K	Joback Method
tc	631.22	K	Joback Method
tf	216.55	K	Joback Method
vc	0.422	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.58	J/molxK	421.83	Joback Method
cpg	308.82	J/molxK	596.32	Joback Method
cpg	294.58	J/molxK	561.43	Joback Method
cpg	279.39	J/molxK	526.53	Joback Method
cpg	263.20	J/molxK	491.63	Joback Method
cpg	245.95	J/molxK	456.73	Joback Method
cpg	322.16	J/molxK	631.22	Joback Method
dvisc	0.0004696	Paxs	421.83	Joback Method
dvisc	0.0004906	Paxs	387.62	Joback Method

dvisc	0.0005170	Paxs	353.40	Joback Method
dvisc	0.0005509	Paxs	319.19	Joback Method
dvisc	0.0005961	Paxs	284.98	Joback Method
dvisc	0.0006590	Paxs	250.76	Joback Method
dvisc	0.0007519	Paxs	216.55	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=C14803420&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14803420&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>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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