

# Bicyclo[4.2.1]non-3-en-9-ol, syn-

<b>Inchi:</b>	InChI=1S/C9H14O/c10-9-7-3-1-2-4-8(9)6-5-7/h1-2,7-10H,3-6H2
<b>InchiKey:</b>	KHYZIIYIOGSVEHF-UHFFFAOYSA-N
<b>Formula:</b>	C9H14O
<b>SMILES:</b>	OC1C2CC=CCC1CC2
<b>Mol. weight [g/mol]:</b>	138.21
<b>CAS:</b>	64725-59-3

## Physical Properties

Property code	Value	Unit	Source
gf	-4.47	kJ/mol	Joback Method
hf	-216.76	kJ/mol	Joback Method
hfus	15.42	kJ/mol	Joback Method
hvap	52.63	kJ/mol	Joback Method
ie	9.14 ± 0.02	eV	NIST Webbook
log10ws	-2.12		Crippen Method
logp	1.723		Crippen Method
mcvol	117.520	ml/mol	McGowan Method
pc	3664.21	kPa	Joback Method
tb	518.28	K	Joback Method
tc	722.51	K	Joback Method
tf	273.85	K	Joback Method
vc	0.433	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.96	J/mol×K	518.28	Joback Method
cpg	305.84	J/mol×K	552.32	Joback Method
cpg	320.76	J/mol×K	586.36	Joback Method
cpg	334.76	J/mol×K	620.40	Joback Method
cpg	347.90	J/mol×K	654.44	Joback Method
cpg	360.22	J/mol×K	688.47	Joback Method
cpg	371.75	J/mol×K	722.51	Joback Method
dvisc	0.0129096	Paxs	273.85	Joback Method

dvisc	0.0046873	Paxs	314.59	Joback Method
dvisc	0.0021470	Paxs	355.33	Joback Method
dvisc	0.0011547	Paxs	396.06	Joback Method
dvisc	0.0006972	Paxs	436.80	Joback Method
dvisc	0.0004588	Paxs	477.54	Joback Method
dvisc	0.0003225	Paxs	518.28	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=C64725593&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C64725593&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>ie:</b>	Ionization energy
<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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