

# 3-methylenebicyclo[3.2.1]octane

<b>Inchi:</b>	InChI=1S/C9H14/c1-7-4-8-2-3-9(5-7)6-8/h8-9H,1-6H2
<b>InchiKey:</b>	WHZYMMAAJCRPGM-UHFFFAOYSA-N
<b>Formula:</b>	C9H14
<b>SMILES:</b>	C=C1CC2CCC(C1)C2
<b>Mol. weight [g/mol]:</b>	122.21
<b>CAS:</b>	4877-39-8

## Physical Properties

Property code	Value	Unit	Source
gf	175.28	kJ/mol	Joback Method
hf	-11.57	kJ/mol	Joback Method
hfus	9.98	kJ/mol	Joback Method
hvap	35.96	kJ/mol	Joback Method
ie	9.08	eV	NIST Webbook
log10ws	-2.75		Crippen Method
logp	2.753		Crippen Method
mcvol	111.650	ml/mol	McGowan Method
pc	3254.14	kPa	Joback Method
tb	426.50	K	Joback Method
tc	636.09	K	Joback Method
tf	233.71	K	Joback Method
vc	0.421	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.76	J/mol×K	426.50	Joback Method
cpg	305.90	J/mol×K	601.16	Joback Method
cpg	292.19	J/mol×K	566.23	Joback Method
cpg	277.58	J/mol×K	531.30	Joback Method
cpg	262.00	J/mol×K	496.36	Joback Method
cpg	245.42	J/mol×K	461.43	Joback Method
cpg	318.75	J/mol×K	636.09	Joback Method
dvisc	0.0005146	Paxs	426.50	Joback Method

dvisc	0.0005555	Paxs	394.37	Joback Method
dvisc	0.0006079	Paxs	362.24	Joback Method
dvisc	0.0006769	Paxs	330.11	Joback Method
dvisc	0.0007716	Paxs	297.97	Joback Method
dvisc	0.0009077	Paxs	265.84	Joback Method
dvisc	0.0011166	Paxs	233.71	Joback Method

## Sources

<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=C4877398&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4877398&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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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