

# Bicyclo[6.1.0]nonane

<b>Inchi:</b>	InChI=1S/C9H16/c1-2-4-6-9-7-8(9)5-3-1/h8-9H,1-7H2
<b>InchiKey:</b>	FYECUAIUGWFPJF-UHFFFAOYSA-N
<b>Formula:</b>	C9H16
<b>SMILES:</b>	C1CCCC2CC2CC1
<b>Mol. weight [g/mol]:</b>	124.22
<b>CAS:</b>	286-60-2

## Physical Properties

Property code	Value	Unit	Source
gf	110.10	kJ/mol	Joback Method
hf	-101.97	kJ/mol	Joback Method
hfus	9.04	kJ/mol	Joback Method
hvap	35.97	kJ/mol	Joback Method
ie	9.40	eV	NIST Webbook
log10ws	-2.90		Crippen Method
logp	2.977		Crippen Method
mcvol	115.950	ml/mol	McGowan Method
pc	3276.53	kPa	Joback Method
rinpol	1003.00		NIST Webbook
rinpol	1003.00		NIST Webbook
tb	431.61	K	Joback Method
tc	647.88	K	Joback Method
tf	216.51	K	Joback Method
vc	0.429	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.94	J/molxK	431.61	Joback Method
cpg	261.35	J/molxK	467.66	Joback Method
cpg	280.52	J/molxK	503.70	Joback Method
cpg	298.50	J/molxK	539.75	Joback Method
cpg	315.35	J/molxK	575.79	Joback Method
cpg	331.12	J/molxK	611.84	Joback Method

cpg	345.88	J/mol×K	647.88	Joback Method
dvisc	0.0026731	Paxs	216.51	Joback Method
dvisc	0.0016168	Paxs	252.36	Joback Method
dvisc	0.0011082	Paxs	288.21	Joback Method
dvisc	0.0008258	Paxs	324.06	Joback Method
dvisc	0.0006525	Paxs	359.91	Joback Method
dvisc	0.0005380	Paxs	395.76	Joback Method
dvisc	0.0004581	Paxs	431.61	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=C286602&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C286602&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>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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