

# Bicyclo[4.2.0]oct-7-ene

Inchi:	InChI=1S/C8H12/c1-2-4-8-6-5-7(8)3-1/h5-8H,1-4H2
InchiKey:	JCYCKZIGTSZZQT-UHFFFAOYSA-N
Formula:	C8H12
SMILES:	C1=CC2CCCCC12
Mol. weight [g/mol]:	108.18
CAS:	3806-82-4

## Physical Properties

Property code	Value	Unit	Source
gf	143.74	kJ/mol	Joback Method
hf	120.50	kJ/mol	NIST Webbook
hfus	9.77	kJ/mol	Joback Method
hvap	33.86	kJ/mol	Joback Method
log10ws	-2.33		Crippen Method
logp	2.363		Crippen Method
mcvol	97.560	ml/mol	McGowan Method
pc	3718.02	kPa	Joback Method
tb	403.62	K	Joback Method
tc	615.80	K	Joback Method
tf	209.52	K	Joback Method
vc	0.367	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	185.77	J/mol×K	403.62	Joback Method
cpg	202.83	J/mol×K	438.98	Joback Method
cpg	218.77	J/mol×K	474.35	Joback Method
cpg	233.66	J/mol×K	509.71	Joback Method
cpg	247.55	J/mol×K	545.07	Joback Method
cpg	260.50	J/mol×K	580.43	Joback Method
cpg	272.57	J/mol×K	615.80	Joback Method
dvisc	0.0010286	Paxs	209.52	Joback Method
dvisc	0.0008159	Paxs	241.87	Joback Method

dvisc	0.0006835	Paxs	274.22	Joback Method
dvisc	0.0005944	Paxs	306.57	Joback Method
dvisc	0.0005308	Paxs	338.92	Joback Method
dvisc	0.0004835	Paxs	371.27	Joback Method
dvisc	0.0004471	Paxs	403.62	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=C3806824&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3806824&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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