

# Bicyclo[3.2.0]hepta-2,6-diene

<b>Inchi:</b>	InChI=1S/C7H8/c1-2-6-4-5-7(6)3-1/h1-2,4-7H,3H2
<b>InchiKey:</b>	PZWQRDVVVKIYLX-UHFFFAOYSA-N
<b>Formula:</b>	C7H8
<b>SMILES:</b>	C1=CC2C=CC2C1
<b>Mol. weight [g/mol]:</b>	92.14
<b>CAS:</b>	2422-86-8

## Physical Properties

Property code	Value	Unit	Source
gf	177.38	kJ/mol	Joback Method
hf	264.00	kJ/mol	NIST Webbook
hfus	10.50	kJ/mol	Joback Method
hvap	31.76	kJ/mol	Joback Method
ie	8.92	eV	NIST Webbook
ie	8.35	eV	NIST Webbook
ie	8.35	eV	NIST Webbook
log10ws	-1.77		Crippen Method
logp	1.748		Crippen Method
mcvol	79.170	ml/mol	McGowan Method
pc	4255.16	kPa	Joback Method
tb	375.63	K	Joback Method
tc	582.98	K	Joback Method
tf	202.53	K	Joback Method
vc	0.305	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	136.22	J/molxK	375.63	Joback Method
cpg	194.97	J/molxK	548.42	Joback Method
cpg	184.97	J/molxK	513.86	Joback Method
cpg	174.16	J/molxK	479.30	Joback Method
cpg	162.48	J/molxK	444.75	Joback Method
cpg	149.85	J/molxK	410.19	Joback Method

cpg	204.21	J/molxK	582.98	Joback Method
dvisc	0.0003745	Paxs	375.63	Joback Method
dvisc	0.0003712	Paxs	346.78	Joback Method
dvisc	0.0003673	Paxs	317.93	Joback Method
dvisc	0.0003627	Paxs	289.08	Joback Method
dvisc	0.0003571	Paxs	260.23	Joback Method
dvisc	0.0003503	Paxs	231.38	Joback Method
dvisc	0.0003417	Paxs	202.53	Joback Method

## Sources

<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=C2422868&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2422868&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>

## 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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