

# Exo-5-chlorobicyclo[2.2.1]hept-2-ene

<b>Inchi:</b>	InChI=1S/C7H9Cl/c8-7-4-5-1-2-6(7)3-5/h1-2,5-7H,3-4H2/t5?,6?,7-/m1/s1
<b>InchiKey:</b>	PSCJIEZOAFQRM-KPGICGJXSA-N
<b>Formula:</b>	C7H9Cl
<b>SMILES:</b>	C1C1CC2C=CC1C2
<b>Mol. weight [g/mol]:</b>	128.60
<b>CAS:</b>	3721-19-5

## Physical Properties

Property code	Value	Unit	Source
gf	127.78	kJ/mol	Joback Method
hf	-26.67	kJ/mol	Joback Method
hfus	14.55	kJ/mol	Joback Method
hvap	35.54	kJ/mol	Joback Method
ie	9.15 ± 0.15	eV	NIST Webbook
log10ws	-2.18		Crippen Method
logp	2.190		Crippen Method
mcvol	95.710	ml/mol	McGowan Method
pc	3722.56	kPa	Joback Method
tb	409.23	K	Joback Method
tc	622.30	K	Joback Method
tf	227.45	K	Joback Method
vc	0.367	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.52	J/mol×K	409.23	Joback Method
cpg	240.48	J/mol×K	586.79	Joback Method
cpg	229.67	J/mol×K	551.28	Joback Method
cpg	218.04	J/mol×K	515.77	Joback Method
cpg	205.50	J/mol×K	480.25	Joback Method
cpg	192.02	J/mol×K	444.74	Joback Method
cpg	250.52	J/mol×K	622.30	Joback Method
dvisc	0.0005772	Paxs	409.23	Joback Method

dvisc	0.0005749	Paxs	378.93	Joback Method
dvisc	0.0005721	Paxs	348.64	Joback Method
dvisc	0.0005689	Paxs	318.34	Joback Method
dvisc	0.0005650	Paxs	288.04	Joback Method
dvisc	0.0005602	Paxs	257.75	Joback Method
dvisc	0.0005541	Paxs	227.45	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=C3721195&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3721195&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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