

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

<b>Inchi:</b>	InChI=1S/C9H12/c1-2-8-5-7-3-4-9(8)6-7/h2-4,7-9H,1,5-6H2/t7?,8-,9?/m1/s1
<b>InchiKey:</b>	INYHZQLKOKTDAI-QJAFJHJLSA-N
<b>Formula:</b>	C9H12
<b>SMILES:</b>	C=CC1CC2C=CC1C2
<b>Mol. weight [g/mol]:</b>	120.19
<b>CAS:</b>	23890-32-6

## Physical Properties

Property code	Value	Unit	Source
chl	-5371.40 ± 1.60	kJ/mol	NIST Webbook
gf	244.39	kJ/mol	Joback Method
hf	157.00 ± 2.00	kJ/mol	NIST Webbook
hfl	114.80 ± 1.70	kJ/mol	NIST Webbook
hfus	14.25	kJ/mol	Joback Method
hvap	42.20	kJ/mol	NIST Webbook
log10ws	-2.36		Crippen Method
logp	2.385		Crippen Method
mcvol	107.350	ml/mol	McGowan Method
pc	3257.86	kPa	Joback Method
tb	414.24	K	Joback Method
tc	619.79	K	Joback Method
tf	218.31	K	Joback Method
vc	0.411	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	212.72	J/molxK	414.24	Joback Method
cpg	286.28	J/molxK	585.54	Joback Method
cpg	273.51	J/molxK	551.28	Joback Method
cpg	259.84	J/molxK	517.02	Joback Method
cpg	245.19	J/molxK	482.76	Joback Method
cpg	229.50	J/molxK	448.50	Joback Method
cpg	298.20	J/molxK	619.79	Joback Method

dvisc	0.0004967	Paxs	414.24	Joback Method
dvisc	0.0004897	Paxs	381.59	Joback Method
dvisc	0.0004814	Paxs	348.93	Joback Method
dvisc	0.0004717	Paxs	316.27	Joback Method
dvisc	0.0004600	Paxs	283.62	Joback Method
dvisc	0.0004456	Paxs	250.97	Joback Method
dvisc	0.0004277	Paxs	218.31	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=C23890326&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23890326&amp;Units=SI</a>

## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<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>hfl:</b>	Liquid phase 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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