

# 5-Ethyl bicyclo[2.2.1]-2-heptene

<b>Inchi:</b>	InChI=1S/C9H14/c1-2-8-5-7-3-4-9(8)6-7/h3-4,7-9H,2,5-6H2,1H3
<b>InchiKey:</b>	QHJIJNGGGLNBNJ-UHFFFAOYSA-N
<b>Formula:</b>	C9H14
<b>SMILES:</b>	CCC1CC2C=CC1C2
<b>Mol. weight [g/mol]:</b>	122.21
<b>CAS:</b>	15403-89-1

## Physical Properties

Property code	Value	Unit	Source
gf	156.55	kJ/mol	Joback Method
hf	-52.21	kJ/mol	Joback Method
hfus	15.53	kJ/mol	Joback Method
hvap	35.61	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.609		Crippen Method
mcvol	111.650	ml/mol	McGowan Method
pc	3107.10	kPa	Joback Method
tb	417.56	K	Joback Method
tc	618.56	K	Joback Method
tf	220.07	K	Joback Method
vc	0.430	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.47	J/molxK	417.56	Joback Method
cpg	305.16	J/molxK	585.06	Joback Method
cpg	291.70	J/molxK	551.56	Joback Method
cpg	277.36	J/molxK	518.06	Joback Method
cpg	262.07	J/molxK	484.56	Joback Method
cpg	245.80	J/molxK	451.06	Joback Method
cpg	317.80	J/molxK	618.56	Joback Method
dvisc	0.0005154	Paxs	417.56	Joback Method
dvisc	0.0005150	Paxs	384.64	Joback Method

dvisc	0.0005145	Paxs	351.73	Joback Method
dvisc	0.0005139	Paxs	318.81	Joback Method
dvisc	0.0005132	Paxs	285.90	Joback Method
dvisc	0.0005123	Paxs	252.98	Joback Method
dvisc	0.0005111	Paxs	220.07	Joback Method

## Sources

<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=C15403891&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15403891&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>

## 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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