

# Viridene (2-penten-1-yl-3-cyclohexadiene)

**Inchi:** InChI=1S/C11H18/c1-2-3-5-8-11-9-6-4-7-10-11/h3-6,11H,2,7-10H2,1H3/b5-3+  
**InchiKey:** LFENZSTXKMWTOH-HWKANZROSA-N  
**Formula:** C11H18  
**SMILES:** CCC=CCC1CC=CCC1  
**Mol. weight [g/mol]:** 150.26

## Physical Properties

Property code	Value	Unit	Source
gf	176.37	kJ/mol	Joback Method
hf	-41.05	kJ/mol	Joback Method
hfus	17.50	kJ/mol	Joback Method
hvap	40.76	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	3.699		Crippen Method
mcvol	146.390	ml/mol	McGowan Method
pc	2548.19	kPa	Joback Method
rinpol	1157.00		NIST Webbook
rinpol	1157.00		NIST Webbook
ripol	1416.00		NIST Webbook
tb	473.95	K	Joback Method
tc	680.03	K	Joback Method
tf	216.79	K	Joback Method
vc	0.550	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.80	J/molxK	473.95	Joback Method
cpg	333.77	J/molxK	508.30	Joback Method
cpg	351.67	J/molxK	542.64	Joback Method
cpg	368.54	J/molxK	576.99	Joback Method
cpg	384.45	J/molxK	611.34	Joback Method
cpg	399.42	J/molxK	645.69	Joback Method
cpg	413.50	J/molxK	680.03	Joback Method

dvisc	0.0060603	Paxs	216.79	Joback Method
dvisc	0.0021665	Paxs	259.65	Joback Method
dvisc	0.0010366	Paxs	302.51	Joback Method
dvisc	0.0005956	Paxs	345.37	Joback Method
dvisc	0.0003867	Paxs	388.23	Joback Method
dvisc	0.0002736	Paxs	431.09	Joback Method
dvisc	0.0002061	Paxs	473.95	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R341510&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R341510&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>
<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>

## 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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<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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