

# cis-1-trans-4-hexadienyl-cyclopropane

<b>Inchi:</b>	InChI=1S/C9H14/c1-2-3-4-5-6-9-7-8-9/h2-3,5-6,9H,4,7-8H2,1H3/b3-2+,6-5-
<b>InchiKey:</b>	AGEOFELTLBOAMI-OHAITUNLSA-N
<b>Formula:</b>	C9H14
<b>SMILES:</b>	CC=CCC=CC1CC1
<b>Mol. weight [g/mol]:</b>	122.21

## Physical Properties

Property code	Value	Unit	Source
gf	246.09	kJ/mol	Joback Method
hf	78.15	kJ/mol	Joback Method
hfus	17.61	kJ/mol	Joback Method
hvap	35.46	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.919		Crippen Method
mvol	118.210	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
rinpol	930.10		NIST Webbook
rinpol	929.40		NIST Webbook
tb	420.38	K	Joback Method
tc	615.43	K	Joback Method
tf	198.97	K	Joback Method
vc	0.457	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.08	J/molxK	420.38	Joback Method
cpg	243.37	J/molxK	452.89	Joback Method
cpg	257.68	J/molxK	485.40	Joback Method
cpg	271.08	J/molxK	517.90	Joback Method
cpg	283.64	J/molxK	550.41	Joback Method
cpg	295.40	J/molxK	582.92	Joback Method
cpg	306.42	J/molxK	615.43	Joback Method
dvisc	0.0013080	Paxs	198.97	Joback Method

dvisc	0.0008196	Paxs	235.87	Joback Method
dvisc	0.0005828	Paxs	272.77	Joback Method
dvisc	0.0004495	Paxs	309.67	Joback Method
dvisc	0.0003664	Paxs	346.58	Joback Method
dvisc	0.0003106	Paxs	383.48	Joback Method
dvisc	0.0002711	Paxs	420.38	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=R137821&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R137821&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>c</sub>vol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-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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