

# Cyclopentane, 1-methyl-2-(2-propenyl)-, trans-

<b>Other names:</b>	trans-1-Allyl-2-Methylcyclopentane
<b>Inchi:</b>	InChI=1S/C9H16/c1-3-5-9-7-4-6-8(9)2/h3,8-9H,1,4-7H2,2H3/t8-,9-/m1/s1
<b>InchiKey:</b>	JUGUHFNYFLSPAJ-RKDXNWHRSA-N
<b>Formula:</b>	C9H16
<b>SMILES:</b>	C=CCC1CCCC1C
<b>Mol. weight [g/mol]:</b>	124.22
<b>CAS:</b>	50746-53-7

## Physical Properties

Property code	Value	Unit	Source
gf	141.58	kJ/mol	Joback Method
hf	-63.52	kJ/mol	Joback Method
hfus	12.79	kJ/mol	Joback Method
hvap	34.91	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.999		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	2790.61	kPa	Joback Method
tb	412.61	K	Joback Method
tc	607.46	K	Joback Method
tf	196.09	K	Joback Method
vc	0.461	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	239.98	J/molxK	412.61	Joback Method
cpg	257.25	J/molxK	445.08	Joback Method
cpg	273.69	J/molxK	477.56	Joback Method
cpg	289.33	J/molxK	510.03	Joback Method
cpg	304.18	J/molxK	542.51	Joback Method
cpg	318.28	J/molxK	574.98	Joback Method
cpg	331.65	J/molxK	607.46	Joback Method
dvisc	0.0022075	Paxs	196.09	Joback Method

dvisc	0.0012125	Paxs	232.18	Joback Method
dvisc	0.0007825	Paxs	268.26	Joback Method
dvisc	0.0005602	Paxs	304.35	Joback Method
dvisc	0.0004306	Paxs	340.44	Joback Method
dvisc	0.0003480	Paxs	376.52	Joback Method
dvisc	0.0002920	Paxs	412.61	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=C50746537&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C50746537&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>h<sub>vap</sub>:</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>log<sub>p</sub>:</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

Latest version available from:

<https://www.chemeo.com/cid/18-883-2/Cyclopentane-1-methyl-2-2-propenyl-trans.pdf>

Generated by Cheméo on 2024-04-24 20:01:15.340116316 +0000 UTC m=+16278124.260693631.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.