

# 3-methyl-1-(1-methylethyl)cyclopentene

<b>Inchi:</b>	InChI=1S/C9H16/c1-7(2)9-5-4-8(3)6-9/h6-8H,4-5H2,1-3H3
<b>InchiKey:</b>	ACQWMMUVHAXRPF-UHFFFAOYSA-N
<b>Formula:</b>	C9H16
<b>SMILES:</b>	CC1C=C(C(C)C)CC1
<b>Mol. weight [g/mol]:</b>	124.22
<b>CAS:</b>	51115-02-7

## Physical Properties

Property code	Value	Unit	Source
gf	79.34	kJ/mol	Joback Method
hf	-127.58	kJ/mol	Joback Method
hfus	10.31	kJ/mol	Joback Method
hvap	36.45	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.999		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	2850.52	kPa	Joback Method
rinpol	933.20		NIST Webbook
rinpol	933.20		NIST Webbook
tb	424.30	K	Joback Method
tc	623.45	K	Joback Method
tf	200.37	K	Joback Method
vc	0.461	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.12	J/mol×K	424.30	Joback Method
cpg	260.45	J/mol×K	457.49	Joback Method
cpg	275.99	J/mol×K	490.68	Joback Method
cpg	290.76	J/mol×K	523.87	Joback Method
cpg	304.79	J/mol×K	557.06	Joback Method
cpg	318.10	J/mol×K	590.26	Joback Method
cpg	330.71	J/mol×K	623.45	Joback Method

dvisc	0.0033599	Paxs	200.37	Joback Method
dvisc	0.0015840	Paxs	237.69	Joback Method
dvisc	0.0009158	Paxs	275.01	Joback Method
dvisc	0.0006036	Paxs	312.33	Joback Method
dvisc	0.0004348	Paxs	349.66	Joback Method
dvisc	0.0003337	Paxs	386.98	Joback Method
dvisc	0.0002683	Paxs	424.30	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=C51115027&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C51115027&amp;Units=SI</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>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/73-336-8/3-methyl-1-1-methylethyl-cyclopentene.pdf>

Generated by Cheméo on 2024-04-27 04:54:13.699822984 +0000 UTC m=+16482902.620400296.

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