

# Cyclopentane, 1-methyl-3-(2-methyl-2-propenyl)-

Inchi:	InChI=1S/C10H18/c1-8(2)6-10-5-4-9(3)7-10/h9-10H,1,4-7H2,2-3H3
InchiKey:	LRXVCZRWTBKTGT-UHFFFAOYSA-N
Formula:	C10H18
SMILES:	C=C(C)CC1CCC(C)C1
Mol. weight [g/mol]:	138.25
CAS:	75873-00-6

## Physical Properties

Property code	Value	Unit	Source
gf	141.45	kJ/mol	Joback Method
hf	-93.95	kJ/mol	Joback Method
hfus	14.07	kJ/mol	Joback Method
hvap	37.21	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.389		Crippen Method
mvol	136.600	ml/mol	McGowan Method
pc	2540.49	kPa	Joback Method
rinpol	968.00		NIST Webbook
tb	435.37	K	Joback Method
tc	632.22	K	Joback Method
tf	193.40	K	Joback Method
vc	0.517	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.28	J/mol×K	435.37	Joback Method
cpg	301.84	J/mol×K	468.18	Joback Method
cpg	319.50	J/mol×K	500.99	Joback Method
cpg	336.27	J/mol×K	533.79	Joback Method
cpg	352.18	J/mol×K	566.60	Joback Method
cpg	367.28	J/mol×K	599.41	Joback Method
cpg	381.58	J/mol×K	632.22	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C75873006&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C75873006&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.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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvp:</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>rinp:</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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