

# Cyclopropane, 1,1-dimethyl-2-(1-methylethenyl)-

Inchi:	InChI=1S/C8H14/c1-6(2)7-5-8(7,3)4/h7H,1,5H2,2-4H3
InchiKey:	LWEPLBXTZQHKEX-UHFFFAOYSA-N
Formula:	C8H14
SMILES:	C=C(C)C1CC1(C)C
Mol. weight [g/mol]:	110.20
CAS:	1121-35-3

## Physical Properties

Property code	Value	Unit	Source
gf	143.32	kJ/mol	Joback Method
hf	-25.11	kJ/mol	Joback Method
hfus	6.79	kJ/mol	Joback Method
hvap	31.27	kJ/mol	Joback Method
ie	8.46	eV	NIST Webbook
log10ws	-2.44		Crippen Method
logp	2.609		Crippen Method
mccvol	108.420	ml/mol	McGowan Method
pc	3096.73	kPa	Joback Method
tb	381.31	K	Joback Method
tc	574.19	K	Joback Method
tf	201.80	K	Joback Method
vc	0.419	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	202.29	J/molxK	381.31	Joback Method
cpg	217.80	J/molxK	413.46	Joback Method
cpg	232.19	J/molxK	445.60	Joback Method
cpg	245.53	J/molxK	477.75	Joback Method
cpg	257.93	J/molxK	509.90	Joback Method
cpg	269.48	J/molxK	542.04	Joback Method
cpg	280.27	J/molxK	574.19	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1121353&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1121353&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>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<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>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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