

# 1,4-Cyclohexadiene, 6-methyl

Inchi:	InChI=1S/C7H10/c1-7-5-3-2-4-6-7/h3-7H,2H2,1H3
InchiKey:	LDXWTNBYKFXMDV-UHFFFAOYSA-N
Formula:	C7H10
SMILES:	CC1C=CCC=C1
Mol. weight [g/mol]:	94.15

## Physical Properties

Property code	Value	Unit	Source
gf	92.43	kJ/mol	Joback Method
hf	-17.93	kJ/mol	Joback Method
hfus	8.16	kJ/mol	Joback Method
hvap	32.19	kJ/mol	Joback Method
log10ws	-2.11		Crippen Method
logp	2.139		Crippen Method
mcvol	90.030	ml/mol	McGowan Method
pc	3843.54	kPa	Joback Method
rinpol	778.00		NIST Webbook
rinpol	778.00		NIST Webbook
tb	377.43	K	Joback Method
tc	584.34	K	Joback Method
tf	177.55	K	Joback Method
vc	0.333	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	148.80	J/molxK	377.43	Joback Method
cpg	210.03	J/molxK	549.86	Joback Method
cpg	199.13	J/molxK	515.37	Joback Method
cpg	187.58	J/molxK	480.89	Joback Method
cpg	175.35	J/molxK	446.40	Joback Method
cpg	162.43	J/molxK	411.92	Joback Method
cpg	220.31	J/molxK	584.34	Joback Method
dvisc	0.0002387	Paxs	377.43	Joback Method

dvisc	0.0003008	Paxs	344.12	Joback Method
dvisc	0.0003985	Paxs	310.80	Joback Method
dvisc	0.0005646	Paxs	277.49	Joback Method
dvisc	0.0008799	Paxs	244.18	Joback Method
dvisc	0.0015775	Paxs	210.86	Joback Method
dvisc	0.0035209	Paxs	177.55	Joback Method

## Sources

<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=R25419&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R25419&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>

## 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

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