

# Cyclohexene, 5-ethenyl-1,5-dimethyl

<b>Inchi:</b>	InChI=1S/C10H16/c1-4-10(3)7-5-6-9(2)8-10/h4,6H,1,5,7-8H2,2-3H3
<b>InchiKey:</b>	LIWRYUPEKRMQGX-UHFFFAOYSA-N
<b>Formula:</b>	C10H16
<b>SMILES:</b>	C=CC1(C)CCC=C(C)C1
<b>Mol. weight [g/mol]:</b>	136.23

## Physical Properties

Property code	Value	Unit	Source
gf	160.45	kJ/mol	Joback Method
hf	-8.43	kJ/mol	Joback Method
hfus	6.75	kJ/mol	Joback Method
hvap	37.42	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.309		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
rinpola	955.00		NIST Webbook
rinpola	952.00		NIST Webbook
tb	448.81	K	Joback Method
tc	662.57	K	Joback Method
tf	245.26	K	Joback Method
vc	0.493	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.70	J/mol×K	448.81	Joback Method
cpg	288.40	J/mol×K	484.44	Joback Method
cpg	304.87	J/mol×K	520.06	Joback Method
cpg	320.25	J/mol×K	555.69	Joback Method
cpg	334.64	J/mol×K	591.32	Joback Method
cpg	348.15	J/mol×K	626.94	Joback Method
cpg	360.89	J/mol×K	662.57	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=R91717&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R91717&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>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>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>rinpola:</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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