

# E,Z-3-Ethylidenecyclohexene

<b>Other names:</b>	3-Ethylidenecyclohexene (E and Z)-3-Ethylidenecyclohexene
<b>Inchi:</b>	InChI=1S/C8H12/c1-2-8-6-4-3-5-7-8/h2,4,6H,3,5,7H2,1H3/b8-2-
<b>InchiKey:</b>	HCKKIWXIMBMLCD-WAPJZHGLSA-N
<b>Formula:</b>	C8H12
<b>SMILES:</b>	CC=C1C=CCCC1
<b>Mol. weight [g/mol]:</b>	108.18
<b>CAS:</b>	16631-62-2

## Physical Properties

Property code	Value	Unit	Source
gf	124.06	kJ/mol	Joback Method
hf	0.02	kJ/mol	Joback Method
hfus	8.78	kJ/mol	Joback Method
hvap	35.22	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	2.673		Crippen Method
mvol	104.120	ml/mol	McGowan Method
pc	3530.46	kPa	Joback Method
tb	412.46	K	Joback Method
tc	624.05	K	Joback Method
tf	202.66	K	Joback Method
vc	0.387	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	187.46	J/mol×K	412.46	Joback Method
cpg	202.13	J/mol×K	447.73	Joback Method
cpg	215.98	J/mol×K	482.99	Joback Method
cpg	229.04	J/mol×K	518.26	Joback Method
cpg	241.33	J/mol×K	553.52	Joback Method
cpg	252.89	J/mol×K	588.79	Joback Method
cpg	263.76	J/mol×K	624.05	Joback Method

dvisc	0.0049850	Paxs	202.66	Joback Method
dvisc	0.0020424	Paxs	237.63	Joback Method
dvisc	0.0010521	Paxs	272.59	Joback Method
dvisc	0.0006302	Paxs	307.56	Joback Method
dvisc	0.0004191	Paxs	342.53	Joback Method
dvisc	0.0003006	Paxs	377.49	Joback Method
dvisc	0.0002281	Paxs	412.46	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C16631622&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16631622&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>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>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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