Cyclohexene,1-(2-propenyl)-

Other names:	1-Allyl-1-cyclohexene
	1-Allylcyclohexene-1
Inchi:	InChI=1S/C9H14/c1-2-6-9-7-4-3-5-8-9/h2,7H,1,3-6,8H2
InchiKey:	GTUOTYSUNDPMPS-UHFFFAOYSA-N
Formula:	C9H14
SMILES:	C=CCC1=CCCCC1
Mol. weight [g/mol]:	122.21
CAS:	13511-13-2

Physical Properties

Property code	Value	Unit	Source
gf	165.23	kJ/mol	Joback Method
hf	17.31	kJ/mol	Joback Method
hfus	9.38	kJ/mol	Joback Method
hvap	36.65	kJ/mol	Joback Method
ie	8.49 ± 0.01	eV	NIST Webbook
log10ws	-3.19		Crippen Method
logp	3.063		Crippen Method
mcvol	118.210	ml/mol	McGowan Method
pc	3152.62	kPa	Joback Method
rinpol	934.50		NIST Webbook
rinpol	929.20		NIST Webbook
rinpol	979.00		NIST Webbook
rinpol	929.00		NIST Webbook
rinpol	934.00		NIST Webbook
rinpol	934.00		NIST Webbook
rinpol	929.00		NIST Webbook
rinpol	971.00		NIST Webbook
rinpol	971.00		NIST Webbook
ripol	1154.00		NIST Webbook
ripol	1144.00		NIST Webbook
ripol	1134.20		NIST Webbook
ripol	1154.10		NIST Webbook
ripol	1144.00		NIST Webbook
ripol	1134.20		NIST Webbook
ripol	1154.10		NIST Webbook
ripol	1144.00		NIST Webbook

ripol	1134.00		NIST Webbook
tb	430.36	K	Joback Method
tc	637.80	K	Joback Method
tf	214.33	K	Joback Method
vc	0.441	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.87	J/mol×K	430.36	Joback Method
cpg	242.85	J/mol×K	464.93	Joback Method
cpg	257.96	J/mol×K	499.51	Joback Method
cpg	272.23	J/mol×K	534.08	Joback Method
cpg	285.69	J/mol×K	568.66	Joback Method
cpg	298.39	J/mol×K	603.23	Joback Method
cpg	310.34	J/mol×K	637.80	Joback Method
dvisc	0.0054593	Pa×s	214.33	Joback Method
dvisc	0.0022549	Pa×s	250.34	Joback Method
dvisc	0.0011633	Pa×s	286.34	Joback Method
dvisc	0.0006958	Pa×s	322.35	Joback Method
dvisc	0.0004614	Pa×s	358.35	Joback Method
dvisc	0.0003298	Pa×s	394.36	Joback Method
dvisc	0.0002494	Pa×s	430.36	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C13511132&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity

gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume