

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
ripol	929.00		NIST Webbook
ripol	971.00		NIST Webbook
ripol	934.00		NIST Webbook
ripol	971.00		NIST Webbook
ripol	979.00		NIST Webbook
ripol	934.00		NIST Webbook
ripol	934.50		NIST Webbook
ripol	929.20		NIST Webbook
ripol	929.00		NIST Webbook
ripol	1144.00		NIST Webbook
ripol	1154.00		NIST Webbook
ripol	1154.10		NIST Webbook
ripol	1134.20		NIST Webbook
ripol	1144.00		NIST Webbook
ripol	1154.10		NIST Webbook
ripol	1134.20		NIST Webbook
ripol	1134.00		NIST Webbook

ripol	1144.00		NIST Webbook
tb	430.36	K	Joback Method
tc	637.80	K	Joback Method
tf	214.33	K	Joback Method
vc	0.441	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

Sources

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

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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