Cyclohexene,3-(2-propenyl)-

Other names:	3-Allylcyclohexene
	3-Allylcyclohexene-1
Inchi:	InChI=1S/C9H14/c1-2-6-9-7-4-3-5-8-9/h2,4,7,9H,1,3,5-6,8H2
InchiKey:	RGURBRHZWFDJBM-UHFFFAOYSA-N
Formula:	C9H14
SMILES:	C=CCC1C=CCCC1
Mol. weight [g/mol]:	122.21
CAS:	15232-95-8

Physical Properties

Property code	Value	Unit	Source
gf	167.15	kJ/mol	Joback Method
hf	8.44	kJ/mol	Joback Method
hfus	10.84	kJ/mol	Joback Method
hvap	35.68	kJ/mol	Joback Method
ie	8.83 ± 0.02	eV	NIST Webbook
log10ws	-2.95		Crippen Method
logp	2.919		Crippen Method
mcvol	118.210	ml/mol	McGowan Method
pc	3089.85	kPa	Joback Method
rinpol	876.40		NIST Webbook
rinpol	962.00		NIST Webbook
rinpol	876.40		NIST Webbook
rinpol	923.00		NIST Webbook
rinpol	917.00		NIST Webbook
rinpol	923.00		NIST Webbook
rinpol	917.00		NIST Webbook
rinpol	962.00		NIST Webbook
ripol	1122.20		NIST Webbook
ripol	1142.20		NIST Webbook
ripol	1122.20		NIST Webbook
ripol	1131.70		NIST Webbook
ripol	1142.00		NIST Webbook
ripol	1131.70		NIST Webbook
ripol	1131.70		NIST Webbook
ripol	1142.20		NIST Webbook
ripol	1132.00		NIST Webbook

ripol	1122.00		NIST Webbook
ripol	1142.00		NIST Webbook
tb	420.71	K	Joback Method
tc	626.25	K	Joback Method
tf	197.57	K	Joback Method
vc	0.440	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	225.47	J/mol×K	420.71	Joback Method
cpg	242.27	J/mol×K	454.97	Joback Method
cpg	258.16	J/mol×K	489.22	Joback Method
cpg	273.19	J/mol×K	523.48	Joback Method
cpg	287.38	J/mol×K	557.73	Joback Method
cpg	300.76	J/mol×K	591.99	Joback Method
cpg	313.36	J/mol×K	626.25	Joback Method
dvisc	0.0052572	Pa×s	197.57	Joback Method
dvisc	0.0021395	Pa×s	234.76	Joback Method
dvisc	0.0011134	Pa×s	271.95	Joback Method
dvisc	0.0006780	Pa×s	309.14	Joback Method
dvisc	0.0004593	Pa×s	346.33	Joback Method
dvisc	0.0003356	Pa×s	383.52	Joback Method
dvisc	0.0002591	Pa×s	420.71	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=C15232958&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