

Cyclohexane, 1-propenyl-

Other names:	Cyclohexane, propenyl- Propene, 1-cyclohexyl- Propenylcyclohexane 1-Cyclohexyl-1-propene 1-Propene, 1-cyclohexyl-
Inchi:	InChI=1S/C9H16/c1-2-6-9-7-4-3-5-8-9/h2,6,9H,3-5,7-8H2,1H3/b6-2+
InchiKey:	IAHIMVFWYADCJJ-QHHAFSJGSA-N
Formula:	C9H16
SMILES:	CC=CC1CCCCC1
Mol. weight [g/mol]:	124.22
CAS:	5364-83-0

Physical Properties

Property code	Value	Unit	Source
gf	129.57	kJ/mol	Joback Method
hf	-57.55	kJ/mol	Joback Method
hfus	11.10	kJ/mol	Joback Method
hvap	36.02	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	3.143		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
tb	431.00 ± 6.00	K	NIST Webbook
tb	431.00 ± 6.00	K	NIST Webbook
tc	638.34	K	Joback Method
tf	193.49	K	Joback Method
vc	0.453	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.35	J/mol×K	429.03	Joback Method
cpg	258.81	J/mol×K	463.92	Joback Method
cpg	276.26	J/mol×K	498.80	Joback Method

cpg	292.73	J/mol×K	533.69	Joback Method
cpg	308.26	J/mol×K	568.57	Joback Method
cpg	322.89	J/mol×K	603.46	Joback Method
cpg	336.66	J/mol×K	638.34	Joback Method
dvisc	0.0080809	Pa×s	193.49	Joback Method
dvisc	0.0026981	Pa×s	232.75	Joback Method
dvisc	0.0012364	Pa×s	272.00	Joback Method
dvisc	0.0006899	Pa×s	311.26	Joback Method
dvisc	0.0004387	Pa×s	350.52	Joback Method
dvisc	0.0003056	Pa×s	389.77	Joback Method
dvisc	0.0002274	Pa×s	429.03	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5364830&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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