Cyclopropane, 1-propenyl-

Other names:	Propene, 1-cyclopropyl-
	Cyclopropane, propenyl-
	1-Propene, 1-cyclopropyl-
Inchi:	InChI=1S/C6H10/c1-2-3-6-4-5-6/h2-3,6H,4-5H2,1H3/b3-2+
InchiKey:	TWAJIXJFYMNJJO-NSCUHMNNSA-N
Formula:	C6H10
SMILES:	CC=CC1CC1
Mol. weight [g/mol]:	82.14
CAS:	4663-21-2

Physical Properties

Property code	Value	Unit	Source
gf	140.61	kJ/mol	Joback Method
hf	22.85	kJ/mol	Joback Method
hfus	9.63	kJ/mol	Joback Method
hvap	28.82	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	1.973		Crippen Method
mcvol	80.240	ml/mol	McGowan Method
pc	3848.31	kPa	Joback Method
rinpol	684.00		NIST Webbook
tb	347.58	K	Joback Method
tc	536.08	K	Joback Method
tf	170.24	K	Joback Method
vc	0.308	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	127.26	J/mol×K	347.58	Joback Method
cpg	180.94	J/mol×K	504.66	Joback Method
cpg	171.52	J/mol×K	473.24	Joback Method
cpg	161.48	J/mol×K	441.83	Joback Method
cpg	150.78	J/mol×K	410.41	Joback Method

cpg	139.39	J/mol×K	379.00	Joback Method
cpg	189.79	J/mol×K	536.08	Joback Method
dvisc	0.0002305	Pa×s	347.58	Joback Method
dvisc	0.0002521	Pa×s	318.02	Joback Method
dvisc	0.0002809	Pa×s	288.47	Joback Method
dvisc	0.0003209	Pa×s	258.91	Joback Method
dvisc	0.0003792	Pa×s	229.35	Joback Method
dvisc	0.0004709	Pa×s	199.80	Joback Method
dvisc	0.0006305	Pa×s	170.24	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4663212&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume