

2-propenyl-cyclopropane

Inchi:	InChI=1S/C6H10/c1-2-3-6-4-5-6/h2,6H,1,3-5H2
InchiKey:	KFOFBFGOHWSECN-UHFFFAOYSA-N
Formula:	C6H10
SMILES:	C=CCC1CC1
Mol. weight [g/mol]:	82.14

Physical Properties

Property code	Value	Unit	Source
gf	148.23	kJ/mol	Joback Method
hf	31.06	kJ/mol	Joback Method
hfus	8.15	kJ/mol	Joback Method
hvap	28.19	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	1.973		Crippen Method
mcvol	80.240	ml/mol	McGowan Method
pc	3801.00	kPa	Joback Method
rinpol	592.80		NIST Webbook
rinpol	592.80		NIST Webbook
rinpol	597.60		NIST Webbook
tb	340.10	K	Joback Method
tc	522.43	K	Joback Method
tf	173.56	K	Joback Method
vc	0.309	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	127.71	J/molxK	340.10	Joback Method
cpg	139.38	J/molxK	370.49	Joback Method
cpg	150.40	J/molxK	400.88	Joback Method
cpg	160.81	J/molxK	431.27	Joback Method
cpg	170.63	J/molxK	461.65	Joback Method
cpg	179.90	J/molxK	492.04	Joback Method
cpg	188.64	J/molxK	522.43	Joback Method

dvisc	0.0005978	Paxs	173.56	Joback Method
dvisc	0.0004731	Paxs	201.32	Joback Method
dvisc	0.0003963	Paxs	229.07	Joback Method
dvisc	0.0003449	Paxs	256.83	Joback Method
dvisc	0.0003084	Paxs	284.59	Joback Method
dvisc	0.0002813	Paxs	312.34	Joback Method
dvisc	0.0002605	Paxs	340.10	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137707&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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