cis-1-Methyl-2-(2'-propenyl)cyclopropane

Other names:	1-Methyl-cis-2-(2-propenyl)-cyclopropane
	1-Allyl-2-methylcyclopropane, (Z)-
	cis-1-Allyl-2-methylcyclopropane
Inchi:	InChI=1S/C7H12/c1-3-4-7-5-6(7)2/h3,6-7H,1,4-5H2,2H3/t6-,7+/m1/s1
InchiKey:	GOCAZFDTNJXFHG-RQJHMYQMSA-N
Formula:	C7H12
SMILES:	C=CCC1CC1C
Mol. weight [g/mol]:	96.17
CAS:	76588-97-1

Physical Properties

Property code	Value	Unit	Source
gf	148.94	kJ/mol	Joback Method
hf	-9.92	kJ/mol	Joback Method
hfus	11.81	kJ/mol	Joback Method
hvap	30.11	kJ/mol	Joback Method
log10ws	-2.02		Crippen Method
logp	2.219		Crippen Method
mcvol	94.330	ml/mol	McGowan Method
pc	3261.58	kPa	Joback Method
rinpol	691.60		NIST Webbook
rinpol	690.50		NIST Webbook
rinpol	687.90		NIST Webbook
tb	358.31	K	Joback Method
tc	539.62	K	Joback Method
tf	180.59	K	Joback Method
vc	0.364	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	163.74	J/mol×K	358.31	Joback Method
cpg	176.84	J/mol×K	388.53	Joback Method
cpg	189.29	J/mol×K	418.75	Joback Method

cpg	201.12	J/mol×K	448.97	Joback Method
cpg	212.34	J/mol×K	479.18	Joback Method
cpg	223.00	J/mol×K	509.40	Joback Method
cpg	233.10	J/mol×K	539.62	Joback Method
dvisc	0.0003894	Pa×s	180.59	Joback Method
dvisc	0.0003489	Pa×s	210.21	Joback Method
dvisc	0.0003212	Pa×s	239.83	Joback Method
dvisc	0.0003011	Pa×s	269.45	Joback Method
dvisc	0.0002859	Pa×s	299.07	Joback Method
dvisc	0.0002740	Pa×s	328.69	Joback Method
dvisc	0.0002645	Pa×s	358.31	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C76588971&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