1-methyl-trans-2-(1-ethenyl)-cyclopropane

Inchi: InChI=1S/C6H10/c1-3-6-4-5(6)2/h3,5-6H,1,4H2,2H3/t5-,6-/m1/s1
InchiKey: JVVPJIPOOZHNTM-PHDIDXHHSA-N
Formula: C6H10
SMILES: C=CC1CC1C
Mol. weight [g/mol]: 82.14

Physical Properties

Property code	Value	Unit	Source
gf	140.52	kJ/mol	Joback Method
hf	10.72	kJ/mol	Joback Method
hfus	9.22	kJ/mol	Joback Method
hvap	27.88	kJ/mol	Joback Method
log10ws	-1.60		Crippen Method
logp	1.828		Crippen Method
mcvol	80.240	ml/mol	McGowan Method
pc	3650.93	kPa	Joback Method
rinpol	580.60		NIST Webbook
rinpol	580.60		NIST Webbook
rinpol	584.80		NIST Webbook
tb	335.43	K	Joback Method
tc	516.94	K	Joback Method
tf	169.32	K	Joback Method
vc	0.308	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	128.08	J/mol×K	335.43	Joback Method
cpg	139.86	J/mol×K	365.68	Joback Method
cpg	151.04	J/mol×K	395.93	Joback Method
cpg	161.64	J/mol×K	426.19	Joback Method
cpg	171.70	J/mol×K	456.44	Joback Method
cpg	181.23	J/mol×K	486.69	Joback Method
cpg	190.26	J/mol×K	516.94	Joback Method

dvisc	0.0002452	Pa×s	169.32	Joback Method
dvisc	0.0002358	Pa×s	197.00	Joback Method
dvisc	0.0002290	Pa×s	224.69	Joback Method
dvisc	0.0002239	Pa×s	252.38	Joback Method
dvisc	0.0002198	Pa×s	280.06	Joback Method
dvisc	0.0002165	Pa×s	307.75	Joback Method
dvisc	0.0002138	Pa×s	335.43	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137425&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