1-Methyl-cis-2-(trans-3-pentenyl)-cyclopropane

Inchi: InChI=1S/C9H16/c1-3-4-5-6-9-7-8(9)2/h3-4,8-9H,5-7H2,1-2H3/b4-3+/t8-,9+/m1/s1
InchiKey: BRJAZMJACNNPEV-BKIAHZASSA-N
Formula: C9H16
SMILES: CC=CCCC1CC1C
Mol. weight [g/mol]: 124.22

Physical Properties

Property code	Value	Unit	Source
gf	158.16	kJ/mol	Joback Method
hf	-59.41	kJ/mol	Joback Method
hfus	18.47	kJ/mol	Joback Method
hvap	35.19	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.999		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	2676.31	kPa	Joback Method
rinpol	900.00		NIST Webbook
rinpol	897.50		NIST Webbook
rinpol	900.00		NIST Webbook
tb	411.55	K	Joback Method
tc	596.57	K	Joback Method
tf	199.81	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.05	J/mol×K	411.55	Joback Method
cpg	313.96	J/mol×K	565.74	Joback Method
cpg	301.26	J/mol×K	534.90	Joback Method
cpg	287.86	J/mol×K	504.06	Joback Method
cpg	273.72	J/mol×K	473.22	Joback Method
cpg	258.79	J/mol×K	442.39	Joback Method
cpg	325.99	J/mol×K	596.57	Joback Method

dvisc	0.0003049	Pa×s	411.55	Joback Method
dvisc	0.0003318	Pa×s	376.26	Joback Method
dvisc	0.0003674	Pa×s	340.97	Joback Method
dvisc	0.0004165	Pa×s	305.68	Joback Method
dvisc	0.0004879	Pa×s	270.39	Joback Method
dvisc	0.0005994	Pa×s	235.10	Joback Method
dvisc	0.0007918	Pa×s	199.81	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137396&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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