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

Inchi: InChI=1S/C10H18/c1-3-4-5-6-7-10-8-9(10)2/h4-5,9-10H,3,6-8H2,1-2H3/b5-4-/t9-,10-/m1/
InchiKey: HAEUYXKLPPPFIM-BYIQDMNASA-N
Formula: C10H18
SMILES: CCC=CCCC1CC1C
Mol. weight [g/mol]: 138.25

Physical Properties

Property code	Value	Unit	Source
gf	166.58	kJ/mol	Joback Method
hf	-80.05	kJ/mol	Joback Method
hfus	21.06	kJ/mol	Joback Method
hvap	37.42	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	3.389		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2429.05	kPa	Joback Method
rinpol	867.50		NIST Webbook
rinpol	870.20		NIST Webbook
rinpol	871.00		NIST Webbook
tb	434.43	K	Joback Method
tc	617.99	K	Joback Method
tf	211.08	K	Joback Method
vc	0.531	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.88	J/mol×K	434.43	Joback Method
cpg	302.53	J/mol×K	465.02	Joback Method
cpg	318.32	J/mol×K	495.62	Joback Method
cpg	333.31	J/mol×K	526.21	Joback Method
cpg	347.53	J/mol×K	556.81	Joback Method
cpg	361.02	J/mol×K	587.40	Joback Method
cpg	373.81	J/mol×K	617.99	Joback Method

dvisc	0.0010219	Pa×s	211.08	Joback Method
dvisc	0.0007346	Pa×s	248.30	Joback Method
dvisc	0.0005755	Pa×s	285.53	Joback Method
dvisc	0.0004770	Pa×s	322.75	Joback Method
dvisc	0.0004110	Pa×s	359.98	Joback Method
dvisc	0.0003642	Pa×s	397.20	Joback Method
dvisc	0.0003294	Pa×s	434.43	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=R137490&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