(trans-4,5-Methylene)-cis-1-hexenyl-cyclopropane

Inchi: InChI=1S/C10H16/c1-8-7-10(8)4-2-3-9-5-6-9/h2-3,8-10H,4-7H2,1H3/b3-2-/t8-,10-/m1/s1
InchiKey: QSPHDGNBPSICPB-XPDWMRMNSA-N
Formula: C10H16
SMILES: CC1CC1CC=CC1CC1
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	227.33	kJ/mol	Joback Method
hf	-7.25	kJ/mol	Joback Method
hfus	19.20	kJ/mol	Joback Method
hvap	37.33	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.999		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	2773.00	kPa	Joback Method
rinpol	997.30		NIST Webbook
rinpol	995.50		NIST Webbook
tb	441.17	K	Joback Method
tc	640.04	K	Joback Method
tf	229.02	K	Joback Method
vc	0.488	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.61	J/mol×K	441.17	Joback Method
cpg	351.67	J/mol×K	606.89	Joback Method
cpg	337.68	J/mol×K	573.75	Joback Method
cpg	322.76	J/mol×K	540.60	Joback Method
cpg	306.82	J/mol×K	507.46	Joback Method
cpg	289.79	J/mol×K	474.31	Joback Method
cpg	364.78	J/mol×K	640.04	Joback Method
dvisc	0.0005835	Pa×s	441.17	Joback Method

dvisc	0.0005777	Pa×s	405.81	Joback Method
dvisc	0.0005708	Pa×s	370.45	Joback Method
dvisc	0.0005625	Pa×s	335.09	Joback Method
dvisc	0.0005525	Pa×s	299.74	Joback Method
dvisc	0.0005401	Pa×s	264.38	Joback Method
dvisc	0.0005242	Pa×s	229.02	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R138146&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