

(trans-4,5-Methylene)-trans-1-hexenyl-cyclopropa

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-QTIBKXMGSA-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	996.00		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/molxK	441.17	Joback Method
cpg	289.79	J/molxK	474.31	Joback Method
cpg	306.82	J/molxK	507.46	Joback Method
cpg	322.76	J/molxK	540.60	Joback Method
cpg	337.68	J/molxK	573.75	Joback Method
cpg	351.67	J/molxK	606.89	Joback Method
cpg	364.78	J/molxK	640.04	Joback Method
dvisc	0.0005242	Paxs	229.02	Joback Method

dvisc	0.0005401	Paxs	264.38	Joback Method
dvisc	0.0005525	Paxs	299.74	Joback Method
dvisc	0.0005625	Paxs	335.09	Joback Method
dvisc	0.0005708	Paxs	370.45	Joback Method
dvisc	0.0005777	Paxs	405.81	Joback Method
dvisc	0.0005835	Paxs	441.17	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R138171&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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