(trans-1,2-Methylenehexyl)-cyclopropane

Inchi: InChI=1S/C10H18/c1-2-3-4-9-7-10(9)8-5-6-8/h8-10H,2-7H2,1H3/t9-,10-/m1/s1
InchiKey: DBRZLJLLVUQXKI-NXEZZACHSA-N
Formula: C10H18
SMILES: CCCCC1CC1C1CC1
Mol. weight [g/mol]: 138.25

Physical Properties

Property code	Value	Unit	Source
gf	147.11	kJ/mol	Joback Method
hf	-124.47	kJ/mol	Joback Method
hfus	19.00	kJ/mol	Joback Method
hvap	37.37	kJ/mol	Joback Method
log10ws	-3.07		Crippen Method
logp	3.223		Crippen Method
mcvol	130.040	ml/mol	McGowan Method
pc	2627.15	kPa	Joback Method
rinpol	990.00		NIST Webbook
rinpol	987.10		NIST Webbook
rinpol	990.00		NIST Webbook
tb	437.01	K	Joback Method
tc	626.35	K	Joback Method
tf	234.10	K	Joback Method
vc	0.508	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.74	J/mol×K	437.01	Joback Method
cpg	305.06	J/mol×K	468.57	Joback Method
cpg	322.35	J/mol×K	500.12	Joback Method
cpg	338.68	J/mol×K	531.68	Joback Method
cpg	354.08	J/mol×K	563.23	Joback Method
cpg	368.62	J/mol×K	594.79	Joback Method
cpg	382.35	J/mol×K	626.35	Joback Method

dvisc	0.0006447	Pa×s	234.10	Joback Method
dvisc	0.0006543	Pa×s	267.92	Joback Method
dvisc	0.0006618	Pa×s	301.74	Joback Method
dvisc	0.0006679	Pa×s	335.56	Joback Method
dvisc	0.0006729	Pa×s	369.37	Joback Method
dvisc	0.0006771	Pa×s	403.19	Joback Method
dvisc	0.0006807	Pa×s	437.01	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=R138017&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