(trans-4,5-Methylene)-7-octenyl-cyclopropane

Inchi: InChI=1S/C12H20/c1-2-4-11-9-12(11)6-3-5-10-7-8-10/h2,10-12H,1,3-9H2/t11-,12-/m0/s1
InchiKey: QGVURVXQAOBWIY-RYUDHWBXSA-N
Formula: C12H20
SMILES: C=CCC1CC1CCCC1CC1
Mol. weight [g/mol]: 164.29

Physical Properties

Property code	Value	Unit	Source
gf	251.79	kJ/mol	Joback Method
hf	-40.32	kJ/mol	Joback Method
hfus	22.90	kJ/mol	Joback Method
hvap	41.15	kJ/mol	Joback Method
log10ws	-3.76		Crippen Method
logp	3.779		Crippen Method
mcvol	153.920	ml/mol	McGowan Method
pc	2265.42	kPa	Joback Method
rinpol	1162.00		NIST Webbook
rinpol	1162.00		NIST Webbook
tb	479.45	K	Joback Method
tc	668.79	K	Joback Method
tf	254.88	K	Joback Method
vc	0.602	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.09	J/mol×K	479.45	Joback Method
cpg	447.60	J/mol×K	637.24	Joback Method
cpg	432.43	J/mol×K	605.68	Joback Method
cpg	416.36	J/mol×K	574.12	Joback Method
cpg	399.32	J/mol×K	542.56	Joback Method
cpg	381.25	J/mol×K	511.01	Joback Method
cpg	461.91	J/mol×K	668.79	Joback Method
dvisc	0.0008100	Pa×s	479.45	Joback Method

dvisc	0.0008238	Pa×s	442.02	Joback Method
dvisc	0.0008405	Pa×s	404.59	Joback Method
dvisc	0.0008611	Pa×s	367.16	Joback Method
dvisc	0.0008869	Pa×s	329.74	Joback Method
dvisc	0.0009206	Pa×s	292.31	Joback Method
dvisc	0.0009660	Pa×s	254.88	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R138131&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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