trans-2-octenyl-cyclopropane

Inchi: InChI=1S/C11H20/c1-2-3-4-5-6-7-8-11-9-10-11/h6-7,11H,2-5,8-10H2,1H3/b7-6+
InchiKey: FMKNISZHDDVXDS-VOTSOKGWSA-N
Formula: C11H20
SMILES: CCCCCC=CCC1CC1
Mol. weight [g/mol]: 152.28

Physical Properties

Property code	Value	Unit	Source
gf	182.71	kJ/mol	Joback Method
hf	-80.35	kJ/mol	Joback Method
hfus	22.58	kJ/mol	Joback Method
hvap	39.95	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.923		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2284.95	kPa	Joback Method
rinpol	1101.20		NIST Webbook
rinpol	1098.50		NIST Webbook
rinpol	1098.50		NIST Webbook
tb	461.98	K	Joback Method
tc	644.31	K	Joback Method
tf	226.59	K	Joback Method
vc	0.589	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.70	J/mol×K	461.98	Joback Method
cpg	347.82	J/mol×K	492.37	Joback Method
cpg	364.04	J/mol×K	522.76	Joback Method
cpg	379.41	J/mol×K	553.15	Joback Method
cpg	393.97	J/mol×K	583.53	Joback Method
cpg	407.78	J/mol×K	613.92	Joback Method
cpg	420.86	J/mol×K	644.31	Joback Method

dvisc	0.0021132	Pa×s	226.59	Joback Method
dvisc	0.0012496	Pa×s	265.82	Joback Method
dvisc	0.0008459	Pa×s	305.05	Joback Method
dvisc	0.0006258	Pa×s	344.28	Joback Method
dvisc	0.0004925	Pa×s	383.52	Joback Method
dvisc	0.0004051	Pa×s	422.75	Joback Method
dvisc	0.0003445	Pa×s	461.98	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=R138111&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