trans-3-octenyl-cyclopropane

Inchi: InChI=1S/C11H20/c1-2-3-4-5-6-7-8-11-9-10-11/h5-6,11H,2-4,7-10H2,1H3/b6-5+
InchiKey: DZNIASRPJPPPMJ-AATRIKPKSA-N
Formula: C11H20
SMILES: CCCCC=CCCC1CC1
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
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	407.78	J/mol×K	613.92	Joback Method
cpg	393.97	J/mol×K	583.53	Joback Method
cpg	379.41	J/mol×K	553.15	Joback Method
cpg	364.04	J/mol×K	522.76	Joback Method
cpg	347.82	J/mol×K	492.37	Joback Method
cpg	420.86	J/mol×K	644.31	Joback Method
dvisc	0.0003445	Pa×s	461.98	Joback Method
dvisc	0.0004051	Pa×s	422.75	Joback Method
dvisc	0.0004925	Pa×s	383.52	Joback Method

dvisc	0.0006258	Pa×s	344.28	Joback Method
dvisc	0.0008459	Pa×s	305.05	Joback Method
dvisc	0.0012496	Pa×s	265.82	Joback Method
dvisc	0.0021132	Pa×s	226.59	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R138126&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume