1-propyl-trans-2-propylcyclopropane

Other names: trans-1,2-dipropyl-cyclopropane
Inchi: InChI=1S/C9H18/c1-3-5-8-7-9(8)6-4-2/h8-9H,3-7H2,1-2H3/t8-,9-/m1/s1
InchiKey: WGTJGRVFECIHRJ-RKDXNWHRSA-N
Formula: C9H18
SMILES: CCCC1CC1CCC
Mol. weight [g/mol]: 126.24

Physical Properties

Property code	Value	Unit	Source
gf	77.94	kJ/mol	Joback Method
hf	-176.63	kJ/mol	Joback Method
hfus	18.27	kJ/mol	Joback Method
hvap	35.23	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	3.223		Crippen Method
mcvol	126.810	ml/mol	McGowan Method
pc	2537.93	kPa	Joback Method
rinpol	857.00		NIST Webbook
rinpol	859.20		NIST Webbook
tb	407.39	K	Joback Method
tc	583.43	K	Joback Method
tf	204.89	K	Joback Method
vc	0.495	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.60	J/mol×K	407.39	Joback Method
cpg	273.45	J/mol×K	436.73	Joback Method
cpg	288.59	J/mol×K	466.07	Joback Method
cpg	303.05	J/mol×K	495.41	Joback Method
cpg	316.85	J/mol×K	524.75	Joback Method
cpg	330.01	J/mol×K	554.09	Joback Method
cpg	342.57	J/mol×K	583.43	Joback Method

dvisc	0.0009405	Pa×s	204.89	Joback Method
dvisc	0.0007164	Pa×s	238.64	Joback Method
dvisc	0.0005837	Pa×s	272.39	Joback Method
dvisc	0.0004976	Pa×s	306.14	Joback Method
dvisc	0.0004379	Pa×s	339.89	Joback Method
dvisc	0.0003943	Pa×s	373.64	Joback Method
dvisc	0.0003613	Pa×s	407.39	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137658&Units=SI

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