trans-1-Methyl-2-propylcyclopropane

Other names: 1-methyl-trans-2-propyl-cyclopropane
Inchi: InChI=1S/C7H14/c1-3-4-7-5-6(7)2/h6-7H,3-5H2,1-2H3/t6-,7-/m1/s1
InchiKey: SSOHKKMWPDYMSB-RNFRBKRXSA-N
Formula: C7H14
SMILES: CCCC1CC1C
Mol. weight [g/mol]: 98.19

Physical Properties

Property code	Value	Unit	Source
gf	61.10	kJ/mol	Joback Method
hf	-135.35	kJ/mol	Joback Method
hfus	13.09	kJ/mol	Joback Method
hvap	30.78	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	2.442		Crippen Method
mcvol	98.630	ml/mol	McGowan Method
pc	3110.57	kPa	Joback Method
rinpol	668.00		NIST Webbook
rinpol	668.00		NIST Webbook
tb	361.63	K	Joback Method
tc	539.10	K	Joback Method
tf	182.35	K	Joback Method
vc	0.384	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.61	J/mol×K	361.63	Joback Method
cpg	191.26	J/mol×K	391.21	Joback Method
cpg	204.28	J/mol×K	420.79	Joback Method
cpg	216.71	J/mol×K	450.36	Joback Method
cpg	228.57	J/mol×K	479.94	Joback Method
cpg	239.87	J/mol×K	509.52	Joback Method
cpg	250.64	J/mol×K	539.10	Joback Method

dvisc	0.0004919	Pa×s	182.35	Joback Method
dvisc	0.0004196	Pa×s	212.23	Joback Method
dvisc	0.0003722	Pa×s	242.11	Joback Method
dvisc	0.0003390	Pa×s	271.99	Joback Method
dvisc	0.0003145	Pa×s	301.87	Joback Method
dvisc	0.0002957	Pa×s	331.75	Joback Method
dvisc	0.0002809	Pa×s	361.63	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=R137549&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