1-Methyl-trans-2-pentylcyclopropane

Inchi: InChI=1S/C9H18/c1-4-5-7(2)9-6-8(9)3/h7-9H,4-6H2,1-3H3/t7?,8-,9+/m1/s1
InchiKey: QRTKUJRGCCRFOM-ASODMVGOSA-N
Formula: C9H18
SMILES: CCCC(C)C1CC1C
Mol. weight [g/mol]: 126.24

Physical Properties

Property code	Value	Unit	Source
gf	75.50	kJ/mol	Joback Method
hf	-181.91	kJ/mol	Joback Method
hfus	14.75	kJ/mol	Joback Method
hvap	34.84	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	3.079		Crippen Method
mcvol	126.810	ml/mol	McGowan Method
pc	2558.51	kPa	Joback Method
rinpol	864.60		NIST Webbook
rinpol	864.20		NIST Webbook
rinpol	865.90		NIST Webbook
rinpol	864.60		NIST Webbook
tb	406.95	K	Joback Method
tc	587.07	K	Joback Method
tf	189.89	K	Joback Method
vc	0.489	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.52	J/mol×K	406.95	Joback Method
cpg	273.83	J/mol×K	436.97	Joback Method
cpg	289.39	J/mol×K	466.99	Joback Method
cpg	304.23	J/mol×K	497.01	Joback Method
cpg	318.37	J/mol×K	527.03	Joback Method
cpg	331.84	J/mol×K	557.05	Joback Method

cpg	344.68	J/mol×K	587.07	Joback Method
dvisc	0.0011687	Pa×s	189.89	Joback Method
dvisc	0.0008119	Pa×s	226.07	Joback Method
dvisc	0.0006237	Pa×s	262.24	Joback Method
dvisc	0.0005108	Pa×s	298.42	Joback Method
dvisc	0.0004367	Pa×s	334.60	Joback Method
dvisc	0.0003850	Pa×s	370.77	Joback Method
dvisc	0.0003471	Pa×s	406.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R136813&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

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

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.