1-Methyl-cis-2-(trans-3,4-methylenepentyl)-cyclop

Inchi: InChI=1S/C10H18/c1-7-5-9(7)3-4-10-6-8(10)2/h7-10H,3-6H2,1-2H3/t7-,8+,9-,10-/m0/s1
InchiKey: WFOQFWIOHOVKTQ-JXUBOQSCSA-N
Formula: C10H18
SMILES: CC1CC1CCC1CC1C
Mol. weight [g/mol]: 138.25

Physical Properties

Property code	Value	Unit	Source
gf	139.40	kJ/mol	Joback Method
hf	-144.81	kJ/mol	Joback Method
hfus	20.07	kJ/mol	Joback Method
hvap	37.06	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	3.079		Crippen Method
mcvol	130.040	ml/mol	McGowan Method
pc	2540.49	kPa	Joback Method
rinpol	966.20		NIST Webbook
rinpol	968.30		NIST Webbook
rinpol	968.90		NIST Webbook
rinpol	965.40		NIST Webbook
rinpol	968.30		NIST Webbook
tb	432.34	K	Joback Method
tc	621.26	K	Joback Method
tf	229.86	K	Joback Method
vc	0.507	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.50	J/mol×K	432.34	Joback Method
cpg	305.13	J/mol×K	463.83	Joback Method
cpg	322.77	J/mol×K	495.31	Joback Method
cpg	339.46	J/mol×K	526.80	Joback Method
cpg	355.24	J/mol×K	558.29	Joback Method

cpg	370.17	J/mol×K	589.77	Joback Method
cpg	384.30	J/mol×K	621.26	Joback Method
dvisc	0.0003717	Pa×s	229.86	Joback Method
dvisc	0.0004332	Pa×s	263.61	Joback Method
dvisc	0.0004877	Pa×s	297.35	Joback Method
dvisc	0.0005359	Pa×s	331.10	Joback Method
dvisc	0.0005787	Pa×s	364.85	Joback Method
dvisc	0.0006169	Pa×s	398.59	Joback Method
dvisc	0.0006510	Pa×s	432.34	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=R136784&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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume