1-methyl-cis-2-(2-methyl)pentyl-cyclopropane

Inchi: InChI=1S/C10H20/c1-4-5-8(2)6-10-7-9(10)3/h8-10H,4-7H2,1-3H3/t8?,9-,10+/m1/s1
InchiKey: HZFINUMNBBEFCF-XVBQNVSMSA-N
Formula: C10H20
SMILES: CCCC(C)CC1CC1C
Mol. weight [g/mol]: 140.27

Physical Properties

Property code	Value	Unit	Source
gf	83.92	kJ/mol	Joback Method
hf	-202.55	kJ/mol	Joback Method
hfus	17.34	kJ/mol	Joback Method
hvap	37.07	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	3.469		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2327.03	kPa	Joback Method
rinpol	966.57		NIST Webbook
rinpol	949.03		NIST Webbook
rinpol	964.86		NIST Webbook
rinpol	942.70		NIST Webbook
rinpol	960.80		NIST Webbook
rinpol	944.43		NIST Webbook
rinpol	962.38		NIST Webbook
rinpol	947.14		NIST Webbook
tb	429.83	K	Joback Method
tc	608.72	K	Joback Method
tf	201.16	K	Joback Method
vc	0.545	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.84	J/mol×K	429.83	Joback Method
cpg	379.41	J/mol×K	578.91	Joback Method

cpg	365.16	J/mol×K	549.09	Joback Method
cpg	350.20	J/mol×K	519.28	Joback Method
cpg	334.51	J/mol×K	489.46	Joback Method
cpg	318.07	J/mol×K	459.65	Joback Method
cpg	393.00	J/mol×K	608.72	Joback Method
dvisc	0.0003719	Pa×s	429.83	Joback Method
dvisc	0.0004189	Pa×s	391.72	Joback Method
dvisc	0.0004842	Pa×s	353.61	Joback Method
dvisc	0.0005796	Pa×s	315.50	Joback Method
dvisc	0.0007289	Pa×s	277.38	Joback Method
dvisc	0.0009861	Pa×s	239.27	Joback Method
dvisc	0.0014960	Pa×s	201.16	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=R136759&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