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

Inchi: InChI=1S/C10H20/c1-4-5-6-8(2)10-7-9(10)3/h8-10H,4-7H2,1-3H3/t8?,9-,10-/m1/s1
InchiKey: SDMZKJVNSBAQOG-VXRWAFEHSA-N
Formula: C10H20
SMILES: CCCCC(C)C1CC1C
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	950.96		NIST Webbook
rinpol	952.54		NIST Webbook
rinpol	947.30		NIST Webbook
rinpol	948.66		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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R137272&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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

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