1-methyl-trans-2-pentyl-cis-3-methyl-cyclopropan

Inchi: InChI=1S/C10H20/c1-4-5-6-7-10-8(2)9(10)3/h8-10H,4-7H2,1-3H3/t8-,9+,10+
InchiKey: IPMTXCVSSNHQAF-MYJAWHEDSA-N
Formula: C10H20
SMILES: CCCCCC1C(C)C1C
Mol. weight [g/mol]: 140.27

Physical Properties

Property code	Value	Unit	Source
gf	78.65	kJ/mol	Joback Method
hf	-217.61	kJ/mol	Joback Method
hfus	21.93	kJ/mol	Joback Method
hvap	37.15	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	3.469		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2237.64	kPa	Joback Method
rinpol	945.93		NIST Webbook
rinpol	946.37		NIST Webbook
rinpol	943.68		NIST Webbook
rinpol	944.42		NIST Webbook
tb	425.60	K	Joback Method
tc	600.09	K	Joback Method
tf	211.92	K	Joback Method
vc	0.550	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.64	J/mol×K	425.60	Joback Method
cpg	378.77	J/mol×K	571.01	Joback Method
cpg	364.49	J/mol×K	541.93	Joback Method
cpg	349.56	J/mol×K	512.85	Joback Method
cpg	333.96	J/mol×K	483.76	Joback Method
cpg	317.66	J/mol×K	454.68	Joback Method

cpg	392.43	J/mol×K	600.09	Joback Method
dvisc	0.0003735	Pa×s	425.60	Joback Method
dvisc	0.0003933	Pa×s	389.99	Joback Method
dvisc	0.0004185	Pa×s	354.37	Joback Method
dvisc	0.0004515	Pa×s	318.76	Joback Method
dvisc	0.0004965	Pa×s	283.15	Joback Method
dvisc	0.0005611	Pa×s	247.53	Joback Method
dvisc	0.0006608	Pa×s	211.92	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=R137534&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

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