1-methyl-trans-2-(3-methyl)pentyl-cyclopropane

Inchi: InChI=1S/C10H20/c1-4-8(2)5-6-10-7-9(10)3/h8-10H,4-7H2,1-3H3/t8?,9-,10-/m1/s1
InchiKey: YAIRHJNLKNFVTM-VXRWAFEHSA-N
Formula: C10H20
SMILES: CCC(C)CCC1CC1C
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	937.86		NIST Webbook
rinpol	938.98		NIST Webbook
rinpol	934.40		NIST Webbook
rinpol	935.66		NIST Webbook
rinpol	937.86		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	318.07	J/mol×K	459.65	Joback Method
cpg	334.51	J/mol×K	489.46	Joback Method
cpg	350.20	J/mol×K	519.28	Joback Method
cpg	365.16	J/mol×K	549.09	Joback Method

cpg	379.41	J/mol×K	578.91	Joback Method
cpg	393.00	J/mol×K	608.72	Joback Method
dvisc	0.0014960	Pa×s	201.16	Joback Method
dvisc	0.0009861	Pa×s	239.27	Joback Method
dvisc	0.0007289	Pa×s	277.38	Joback Method
dvisc	0.0005796	Pa×s	315.50	Joback Method
dvisc	0.0004842	Pa×s	353.61	Joback Method
dvisc	0.0004189	Pa×s	391.72	Joback Method
dvisc	0.0003719	Pa×s	429.83	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137445&Units=SI

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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