

1-Methyl-cis-2-(cis-3,4-methylenepentyl)-cyclopropane

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-
InchiKey:	WFOQFWIOHOVKTQ-FIRGSJFUSA-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	1003.80		NIST Webbook
rinpol	1003.50		NIST Webbook
tb	432.34	K	Joback Method
tc	621.26	K	Joback Method
tf	229.86	K	Joback Method
vc	0.507	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.50	J/mol×K	432.34	Joback Method
cpg	370.17	J/mol×K	589.77	Joback Method
cpg	355.24	J/mol×K	558.29	Joback Method
cpg	339.46	J/mol×K	526.80	Joback Method
cpg	322.77	J/mol×K	495.31	Joback Method
cpg	305.13	J/mol×K	463.83	Joback Method
cpg	384.30	J/mol×K	621.26	Joback Method
dvisc	0.0006510	Paxs	432.34	Joback Method

dvisc	0.0006169	Paxs	398.59	Joback Method
dvisc	0.0005787	Paxs	364.85	Joback Method
dvisc	0.0005359	Paxs	331.10	Joback Method
dvisc	0.0004877	Paxs	297.35	Joback Method
dvisc	0.0004332	Paxs	263.61	Joback Method
dvisc	0.0003717	Paxs	229.86	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R136764&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

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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