

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

<b>Inchi:</b>	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
<b>InchiKey:</b>	YAIRHJNLKNFVMTM-VXRWAFEHSA-N
<b>Formula:</b>	C10H20
<b>SMILES:</b>	CCC(C)CCC1CC1C
<b>Mol. weight [g/mol]:</b>	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	935.66		NIST Webbook
rinpol	934.40		NIST Webbook
rinpol	938.98		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/molxK	429.83	Joback Method
cpg	318.07	J/molxK	459.65	Joback Method
cpg	334.51	J/molxK	489.46	Joback Method
cpg	350.20	J/molxK	519.28	Joback Method
cpg	365.16	J/molxK	549.09	Joback Method

cpg	379.41	J/molxK	578.91	Joback Method
cpg	393.00	J/molxK	608.72	Joback Method
dvisc	0.0014960	Paxs	201.16	Joback Method
dvisc	0.0009861	Paxs	239.27	Joback Method
dvisc	0.0007289	Paxs	277.38	Joback Method
dvisc	0.0005796	Paxs	315.50	Joback Method
dvisc	0.0004842	Paxs	353.61	Joback Method
dvisc	0.0004189	Paxs	391.72	Joback Method
dvisc	0.0003719	Paxs	429.83	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R137445&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R137445&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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