

# 1,2-dimethyl-cis-2-pentyl-cyclopropane

Inchi:	InChI=1S/C10H20/c1-4-5-6-7-10(3)8-9(10)2/h9H,4-8H2,1-3H3/t9-,10+/m1/s1
InchiKey:	MIUGYZWCPHQTLS-ZJUUVORDSA-N
Formula:	C10H20
SMILES:	CCCCC1(C)CC1C
Mol. weight [g/mol]:	140.27

## Physical Properties

Property code	Value	Unit	Source
gf	80.87	kJ/mol	Joback Method
hf	-182.03	kJ/mol	Joback Method
hfus	14.56	kJ/mol	Joback Method
hvap	36.31	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.613		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2412.37	kPa	Joback Method
rinpola	934.81		NIST Webbook
rinpola	936.23		NIST Webbook
rinpola	931.40		NIST Webbook
rinpola	932.78		NIST Webbook
rinpola	934.81		NIST Webbook
tb	430.51	K	Joback Method
tc	612.89	K	Joback Method
tf	240.06	K	Joback Method
vc	0.549	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.75	J/mol×K	430.51	Joback Method
cpg	319.05	J/mol×K	460.91	Joback Method
cpg	335.32	J/mol×K	491.30	Joback Method
cpg	350.64	J/mol×K	521.70	Joback Method
cpg	365.08	J/mol×K	552.10	Joback Method

cpg	378.74	J/mol×K	582.49	Joback Method
cpg	391.68	J/mol×K	612.89	Joback Method

## Sources

<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=R137009&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R137009&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvap:</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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