

# 1-trans-2-cis-3-Trimethylcyclopentane

Inchi:	InChI=1S/C8H16/c1-6-4-5-7(2)8(6)3/h6-8H,4-5H2,1-3H3/t6-,7+,8+
InchiKey:	VCWNHOPGKQCXIQ-JIGDXULJSA-N
Formula:	C8H16
SMILES:	CC1CCC(C)C1C
Mol. weight [g/mol]:	112.21

## Physical Properties

Property code	Value	Unit	Source
gf	37.61	kJ/mol	Joback Method
hf	-188.65	kJ/mol	Joback Method
hfus	12.55	kJ/mol	Joback Method
hvap	33.04	kJ/mol	Joback Method
log10ws	-2.34		Crippen Method
logp	2.688		Crippen Method
mvol	112.720	ml/mol	McGowan Method
pc	2853.57	kPa	Joback Method
rinpol	745.00		NIST Webbook
rinpol	745.00		NIST Webbook
tb	388.38	K	Joback Method
tc	579.97	K	Joback Method
tf	182.34	K	Joback Method
vc	0.422	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.62	J/molxK	388.38	Joback Method
cpg	291.26	J/molxK	548.04	Joback Method
cpg	277.08	J/molxK	516.11	Joback Method
cpg	262.24	J/molxK	484.17	Joback Method
cpg	246.72	J/molxK	452.24	Joback Method
cpg	230.52	J/molxK	420.31	Joback Method
cpg	304.79	J/molxK	579.97	Joback Method
dvisc	0.0002619	Paxs	388.38	Joback Method

dvisc	0.0002952	Paxs	354.04	Joback Method
dvisc	0.0003414	Paxs	319.70	Joback Method
dvisc	0.0004089	Paxs	285.36	Joback Method
dvisc	0.0005145	Paxs	251.02	Joback Method
dvisc	0.0006962	Paxs	216.68	Joback Method
dvisc	0.0010560	Paxs	182.34	Joback Method

## Sources

<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>
<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=R633908&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R633908&amp;Units=SI</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>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>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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