

# cis,trans,trans-3-Ethyl-1,2-dimethylcyclopentane

Inchi:	InChI=1S/C9H18/c1-4-9-6-5-7(2)8(9)3/h7-9H,4-6H2,1-3H3/t7-,8+,9-/m0/s1
InchiKey:	UMUGNPFWQJAOJI-YIZRAAEISA-N
Formula:	C9H18
SMILES:	CCC1CCC(C)C1C
Mol. weight [g/mol]:	126.24

## Physical Properties

Property code	Value	Unit	Source
gf	46.03	kJ/mol	Joback Method
hf	-209.29	kJ/mol	Joback Method
hfus	15.14	kJ/mol	Joback Method
hvap	35.27	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	3.079		Crippen Method
mcvol	126.810	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
rinpola	884.00		NIST Webbook
rinpola	877.00		NIST Webbook
rinpola	878.00		NIST Webbook
rinpola	881.00		NIST Webbook
rinpola	874.00		NIST Webbook
tb	411.26	K	Joback Method
tc	601.43	K	Joback Method
tf	193.61	K	Joback Method
vc	0.478	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.59	J/molxK	411.26	Joback Method
cpg	273.61	J/molxK	442.96	Joback Method
cpg	290.88	J/molxK	474.65	Joback Method
cpg	307.41	J/molxK	506.35	Joback Method
cpg	323.20	J/molxK	538.04	Joback Method

cpg	338.29	J/mol×K	569.74	Joback Method
cpg	352.67	J/mol×K	601.43	Joback Method
dvisc	0.0013588	Paxs	193.61	Joback Method
dvisc	0.0008515	Paxs	229.89	Joback Method
dvisc	0.0006061	Paxs	266.16	Joback Method
dvisc	0.0004681	Paxs	302.44	Joback Method
dvisc	0.0003821	Paxs	338.71	Joback Method
dvisc	0.0003244	Paxs	374.99	Joback Method
dvisc	0.0002834	Paxs	411.26	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=R96490&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R96490&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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