

# 1«alpha»,2«beta»,3«alpha»,4«beta»-Tetramethylcyclopentane

<b>Other names:</b>	cis,trans,cis,trans-Tetramethylcyclopentane 1-trans-2-trans-3-trans-4-tetramethylcyclopentane cis,trans,cis,trans-1,2,3,4-Tetramethylcyclopentane cis,trans,trans,cis-1,2,3,4-Tetramethylcyclopentane
<b>Inchi:</b>	InChI=1S/C9H18/c1-6-5-7(2)9(4)8(6)3/h6-9H,5H2,1-4H3/t6-,7-,8+,9+/m0/s1
<b>InchiKey:</b>	INYXDKODFMWKER-RBXMUDONSA-N
<b>Formula:</b>	C9H18
<b>SMILES:</b>	CC1CC(C)C(C)C1C
<b>Mol. weight [g/mol]:</b>	126.24
<b>CAS:</b>	2532-67-4

## Physical Properties

Property code	Value	Unit	Source
gf	38.32	kJ/mol	Joback Method
hf	-229.63	kJ/mol	Joback Method
hfus	16.21	kJ/mol	Joback Method
hvap	34.96	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.934		Crippen Method
mcvol	126.810	ml/mol	McGowan Method
pc	2497.50	kPa	Joback Method
rinpol	800.00		NIST Webbook
rinpol	826.00		NIST Webbook
rinpol	808.00		NIST Webbook
rinpol	801.00		NIST Webbook
rinpol	804.90		NIST Webbook
rinpol	800.00		NIST Webbook
rinpol	802.00		NIST Webbook
rinpol	803.00		NIST Webbook
rinpol	804.00		NIST Webbook
rinpol	806.00		NIST Webbook
rinpol	826.00		NIST Webbook
rinpol	829.00		NIST Webbook
rinpol	831.00		NIST Webbook
rinpol	833.00		NIST Webbook
rinpol	836.00		NIST Webbook
tb	406.59	K	Joback Method

tc	596.26	K	Joback Method
tf	189.37	K	Joback Method
vc	0.477	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.30	J/mol×K	406.59	Joback Method
cpg	273.56	J/mol×K	438.20	Joback Method
cpg	291.10	J/mol×K	469.81	Joback Method
cpg	307.92	J/mol×K	501.43	Joback Method
cpg	324.05	J/mol×K	533.04	Joback Method
cpg	339.49	J/mol×K	564.65	Joback Method
cpg	354.24	J/mol×K	596.26	Joback Method
dvisc	0.0006663	Paxs	189.37	Joback Method
dvisc	0.0005055	Paxs	225.57	Joback Method
dvisc	0.0004140	Paxs	261.78	Joback Method
dvisc	0.0003559	Paxs	297.98	Joback Method
dvisc	0.0003162	Paxs	334.18	Joback Method
dvisc	0.0002875	Paxs	370.39	Joback Method
dvisc	0.0002658	Paxs	406.59	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=C2532674&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2532674&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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinqol:</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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