

# 1,3-Cyclohexadiene, 1,3,5,5-tetramethyl-

<b>Other names:</b>	1,3,5,5-Tetramethyl-1,3-cyclohexadiene
<b>Inchi:</b>	InChI=1S/C10H16/c1-8-5-9(2)7-10(3,4)6-8/h5-6H,7H2,1-4H3
<b>InchiKey:</b>	SZHAWDAGEJWQJK-UHFFFAOYSA-N
<b>Formula:</b>	C10H16
<b>SMILES:</b>	CC1=CC(C)(C)CC(C)=C1
<b>Mol. weight [g/mol]:</b>	136.23
<b>CAS:</b>	4724-89-4

## Physical Properties

Property code	Value	Unit	Source
gf	92.94	kJ/mol	Joback Method
hf	-87.55	kJ/mol	Joback Method
hfus	8.86	kJ/mol	Joback Method
hvap	39.04	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.309		Crippen Method
mcvol	132.300	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
rinpol	1292.00		NIST Webbook
ripol	1406.00		NIST Webbook
tb	456.27	K	Joback Method
tc	668.83	K	Joback Method
tf	260.30	K	Joback Method
vc	0.498	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.78	J/molxK	456.27	Joback Method
cpg	290.27	J/molxK	491.70	Joback Method
cpg	305.70	J/molxK	527.12	Joback Method
cpg	320.17	J/molxK	562.55	Joback Method
cpg	333.78	J/molxK	597.98	Joback Method
cpg	346.62	J/molxK	633.40	Joback Method

## Sources

<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=C4724894&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4724894&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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