

# 1,1,7,7a-Tetramethyl-1a,2,6,7,7a,7b-hexahydro-1H

<b>Inchi:</b>	InChI=1S/C15H22/c1-10-6-5-7-11-8-9-12-13(14(12,2)3)15(10,11)4/h5,7-8,10,12-13H,6,9
<b>InchiKey:</b>	AOKPBPDKGDLBCJ-UHFFFAOYSA-N
<b>Formula:</b>	C15H22
<b>SMILES:</b>	CC1CC=CC2=CCC3C(C3(C)C)C21C
<b>Mol. weight [g/mol]:</b>	202.34
<b>CAS:</b>	154098-14-3

## Physical Properties

Property code	Value	Unit	Source
gf	257.36	kJ/mol	Joback Method
hf	-52.96	kJ/mol	Joback Method
hfus	16.41	kJ/mol	Joback Method
hvap	47.39	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	4.191		Crippen Method
mvol	181.030	ml/mol	McGowan Method
pc	2189.73	kPa	Joback Method
rinpol	1439.90		NIST Webbook
tb	565.80	K	Joback Method
tc	793.56	K	Joback Method
tf	358.95	K	Joback Method
vc	0.697	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	483.94	J/molxK	565.80	Joback Method
cpg	505.80	J/molxK	603.76	Joback Method
cpg	526.11	J/molxK	641.72	Joback Method
cpg	545.16	J/molxK	679.68	Joback Method
cpg	563.26	J/molxK	717.64	Joback Method
cpg	580.73	J/molxK	755.60	Joback Method
cpg	597.85	J/molxK	793.56	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=C154098143&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C154098143&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>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>hvp:</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>rinp:</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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