

# 1,1,5,6-Tetramethyl-1,2,3,4-tetrahydronaphthalene

<b>Inchi:</b>	InChI=1S/C14H20/c1-10-7-8-13-12(11(10)2)6-5-9-14(13,3)4/h7-8H,5-6,9H2,1-4H3
<b>InchiKey:</b>	FXJRXZWVNPANR-UHFFFAOYSA-N
<b>Formula:</b>	C14H20
<b>SMILES:</b>	<chem>Cc1ccc2c(c1C)CCCC2(C)C</chem>
<b>Mol. weight [g/mol]:</b>	188.31
<b>CAS:</b>	31197-54-3

## Physical Properties

Property code	Value	Unit	Source
gf	193.68	kJ/mol	Joback Method
hf	-48.29	kJ/mol	Joback Method
hfus	14.63	kJ/mol	Joback Method
hvap	49.95	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	3.917		Crippen Method
mcvol	173.500	ml/mol	McGowan Method
pc	2320.31	kPa	Joback Method
rinpol	1522.60		NIST Webbook
rinpol	1510.00		NIST Webbook
rinpol	1501.00		NIST Webbook
rinpol	1510.00		NIST Webbook
ripol	1925.00		NIST Webbook
tb	572.59	K	Joback Method
tc	800.28	K	Joback Method
tf	349.84	K	Joback Method
vc	0.658	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.35	J/molxK	572.59	Joback Method
cpg	448.30	J/molxK	610.54	Joback Method
cpg	466.08	J/molxK	648.49	Joback Method
cpg	482.85	J/molxK	686.43	Joback Method

cpg	498.75	J/mol×K	724.38	Joback Method
cpg	513.95	J/mol×K	762.33	Joback Method
cpg	528.59	J/mol×K	800.28	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=C31197543&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C31197543&amp;Units=SI</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>mcvol:</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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