

# (3aS,4R,7R)-1,4,9,9-Tetramethyl-5,6,7,8-tetrahydro

<b>Inchi:</b>	InChI=1S/C15H22/c1-10-7-8-15-11(2)5-6-12(9-13(10)15)14(15,3)4/h7-8,11-12H,5-6,9H2
<b>InchiKey:</b>	DPHLFUXQEZYAP-UHFFFAOYSA-N
<b>Formula:</b>	C15H22
<b>SMILES:</b>	CC1=C2CC3CCC(C)C2(C=C1)C3(C)C
<b>Mol. weight [g/mol]:</b>	202.34
<b>CAS:</b>	50430-14-3

## Physical Properties

Property code	Value	Unit	Source
gf	255.44	kJ/mol	Joback Method
hf	-44.09	kJ/mol	Joback Method
hfus	14.95	kJ/mol	Joback Method
hvap	48.36	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	4.335		Crippen Method
mcvol	181.030	ml/mol	McGowan Method
pc	2227.09	kPa	Joback Method
rinpol	1369.40		NIST Webbook
rinpol	1351.00		NIST Webbook
rinpol	1351.00		NIST Webbook
rinpol	1351.00		NIST Webbook
tb	575.45	K	Joback Method
tc	804.27	K	Joback Method
tf	375.71	K	Joback Method
vc	0.698	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	483.52	J/molxK	575.45	Joback Method
cpg	504.45	J/molxK	613.59	Joback Method
cpg	523.95	J/molxK	651.72	Joback Method
cpg	542.31	J/molxK	689.86	Joback Method
cpg	559.86	J/molxK	728.00	Joback Method

cpg	576.90	J/mol×K	766.14	Joback Method
cpg	593.73	J/mol×K	804.27	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=C50430143&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C50430143&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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