

# 1,2,4,4-tetramethylcycloheptene

<b>Inchi:</b>	InChI=1S/C11H20/c1-9-6-5-7-11(3,4)8-10(9)2/h5-8H2,1-4H3
<b>InchiKey:</b>	VYDCEQSMBUSGHV-UHFFFAOYSA-N
<b>Formula:</b>	C11H20
<b>SMILES:</b>	CC1=C(C)CC(C)(C)CCC1
<b>Mol. weight [g/mol]:</b>	152.28

## Physical Properties

Property code	Value	Unit	Source
gf	59.30	kJ/mol	Joback Method
hf	-172.13	kJ/mol	Joback Method
hfus	8.13	kJ/mol	Joback Method
hvap	41.15	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.923		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2517.59	kPa	Joback Method
rinpol	1058.50		NIST Webbook
rinpol	1058.50		NIST Webbook
tb	484.26	K	Joback Method
tc	699.81	K	Joback Method
tf	267.29	K	Joback Method
vc	0.560	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.19	J/mol×K	484.26	Joback Method
cpg	353.77	J/mol×K	520.19	Joback Method
cpg	372.21	J/mol×K	556.11	Joback Method
cpg	389.59	J/mol×K	592.04	Joback Method
cpg	406.01	J/mol×K	627.96	Joback Method
cpg	421.58	J/mol×K	663.89	Joback Method
cpg	436.39	J/mol×K	699.81	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=R492029&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R492029&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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