

# 1,3,3,7-tetramethylcycloheptene

<b>Inchi:</b>	InChI=1S/C11H20/c1-9-6-5-7-11(3,4)8-10(9)2/h8-9H,5-7H2,1-4H3
<b>InchiKey:</b>	UCPZTFJETUKZLI-UHFFFAOYSA-N
<b>Formula:</b>	C11H20
<b>SMILES:</b>	CC1=CC(C)(C)CCCC1C
<b>Mol. weight [g/mol]:</b>	152.28

## Physical Properties

Property code	Value	Unit	Source
gf	61.22	kJ/mol	Joback Method
hf	-181.00	kJ/mol	Joback Method
hfus	9.59	kJ/mol	Joback Method
hvap	40.18	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.779		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2472.73	kPa	Joback Method
rinpol	1042.50		NIST Webbook
rinpol	1042.50		NIST Webbook
tb	474.61	K	Joback Method
tc	688.62	K	Joback Method
tf	250.53	K	Joback Method
vc	0.559	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.04	J/mol×K	474.61	Joback Method
cpg	353.50	J/mol×K	510.28	Joback Method
cpg	372.75	J/mol×K	545.95	Joback Method
cpg	390.90	J/mol×K	581.62	Joback Method
cpg	408.02	J/mol×K	617.29	Joback Method
cpg	424.23	J/mol×K	652.96	Joback Method
cpg	439.62	J/mol×K	688.62	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R492049&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R492049&amp;Units=SI</a>
<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>

# 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>hvpap:</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>rinppl:</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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