

# 3,4,7,7-tetramethylcyclohepta-1,3,5-triene

<b>Inchi:</b>	InChI=1S/C11H16/c1-9-5-7-11(3,4)8-6-10(9)2/h5-8H,1-4H3
<b>InchiKey:</b>	YLIMFFFDYRTNMY-UHFFFAOYSA-N
<b>Formula:</b>	C11H16
<b>SMILES:</b>	CC1=C(C)C=CC(C)(C)C=C1
<b>Mol. weight [g/mol]:</b>	148.24

## Physical Properties

Property code	Value	Unit	Source
gf	119.22	kJ/mol	Joback Method
hf	-56.57	kJ/mol	Joback Method
hfus	10.57	kJ/mol	Joback Method
hvap	41.73	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.475		Crippen Method
mcvol	142.090	ml/mol	McGowan Method
pc	2709.85	kPa	Joback Method
rinpol	1034.50		NIST Webbook
tb	482.58	K	Joback Method
tc	702.60	K	Joback Method
tf	268.81	K	Joback Method
vc	0.532	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.62	J/mol×K	482.58	Joback Method
cpg	318.72	J/mol×K	519.25	Joback Method
cpg	334.71	J/mol×K	555.92	Joback Method
cpg	349.72	J/mol×K	592.59	Joback Method
cpg	363.84	J/mol×K	629.26	Joback Method
cpg	377.18	J/mol×K	665.93	Joback Method
cpg	389.85	J/mol×K	702.60	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R492123&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R492123&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>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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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

Latest version available from:

<https://www.chemeo.com/cid/23-358-9/3-4-7-7-tetramethylcyclohepta-1-3-5-triene.pdf>

Generated by Cheméo on 2024-04-19 19:30:13.836114793 +0000 UTC m=+15844262.756692108.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.