

# 1,1,4-trimethylcycloheptene

<b>Other names:</b>	1,4,4-trimethylcycloheptene
<b>Inchi:</b>	InChI=1S/C10H18/c1-9-5-4-7-10(2,3)8-6-9/h6H,4-5,7-8H2,1-3H3
<b>InchiKey:</b>	CPKYAUHXXUMQDM-UHFFFAOYSA-N
<b>Formula:</b>	C10H18
<b>SMILES:</b>	CC1=CCC(C)(C)CCC1
<b>Mol. weight [g/mol]:</b>	138.25

## Physical Properties

Property code	Value	Unit	Source
gf	60.51	kJ/mol	Joback Method
hf	-140.02	kJ/mol	Joback Method
hfus	5.93	kJ/mol	Joback Method
hvap	38.26	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.533		Crippen Method
mvol	136.600	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
rinpol	959.00		NIST Webbook
rinpol	959.00		NIST Webbook
tb	456.40	K	Joback Method
tc	673.85	K	Joback Method
tf	243.50	K	Joback Method
vc	0.504	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.14	J/mol×K	456.40	Joback Method
cpg	306.46	J/mol×K	492.64	Joback Method
cpg	324.55	J/mol×K	528.88	Joback Method
cpg	341.51	J/mol×K	565.12	Joback Method
cpg	357.45	J/mol×K	601.37	Joback Method
cpg	372.47	J/mol×K	637.61	Joback Method
cpg	386.67	J/mol×K	673.85	Joback Method

# Sources

<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=R492014&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R492014&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>h vap:</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>r in pol:</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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