

# Cycloheptene, 5-methyl-

<b>Other names:</b>	5-Methylcycloheptene
<b>Inchi:</b>	InChI=1S/C8H14/c1-8-6-4-2-3-5-7-8/h2-3,8H,4-7H2,1H3
<b>InchiKey:</b>	ASLRNQBBLPDZET-UHFFFAOYSA-N
<b>Formula:</b>	C8H14
<b>SMILES:</b>	CC1CCC=CCC1
<b>Mol. weight [g/mol]:</b>	110.20
<b>CAS:</b>	2505-06-8

## Physical Properties

Property code	Value	Unit	Source
gf	58.79	kJ/mol	Joback Method
hf	-102.51	kJ/mol	Joback Method
hfus	7.43	kJ/mol	Joback Method
hvap	34.30	kJ/mol	Joback Method
log10ws	-2.68		Crippen Method
logp	2.753		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3380.21	kPa	Joback Method
rinpol	851.00		NIST Webbook
rinpol	851.00		NIST Webbook
tb	405.42	K	Joback Method
tc	617.11	K	Joback Method
tf	184.54	K	Joback Method
vc	0.395	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	198.55	J/molxK	405.42	Joback Method
cpg	215.85	J/molxK	440.70	Joback Method
cpg	232.29	J/molxK	475.98	Joback Method
cpg	247.89	J/molxK	511.26	Joback Method
cpg	262.67	J/molxK	546.55	Joback Method
cpg	276.65	J/molxK	581.83	Joback Method

cpg	289.85	J/mol×K	617.11	Joback Method
dvisc	0.0112340	Paxs	184.54	Joback Method
dvisc	0.0034636	Paxs	221.35	Joback Method
dvisc	0.0014937	Paxs	258.17	Joback Method
dvisc	0.0007946	Paxs	294.98	Joback Method
dvisc	0.0004863	Paxs	331.79	Joback Method
dvisc	0.0003283	Paxs	368.61	Joback Method
dvisc	0.0002380	Paxs	405.42	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=C2505068&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2505068&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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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

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