

# 1-Methylcycloheptene

<b>Other names:</b>	Cycloheptene, 1-methyl-
<b>Inchi:</b>	InChI=1S/C8H14/c1-8-6-4-2-3-5-7-8/h6H,2-5,7H2,1H3
<b>InchiKey:</b>	MREBNFRVGN TYOV-UHFFFAOYSA-N
<b>Formula:</b>	C8H14
<b>SMILES:</b>	CC1=CCCCC1
<b>Mol. weight [g/mol]:</b>	110.20
<b>CAS:</b>	1453-25-4

## Physical Properties

Property code	Value	Unit	Source
gf	56.87	kJ/mol	Joback Method
hf	-93.64	kJ/mol	Joback Method
hfus	5.97	kJ/mol	Joback Method
hvap	35.27	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.897		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3452.08	kPa	Joback Method
rinpol	874.00		NIST Webbook
rinpol	868.00		NIST Webbook
rinpol	868.00		NIST Webbook
rinpol	863.00		NIST Webbook
rinpol	862.00		NIST Webbook
rinpol	874.00		NIST Webbook
rinpol	874.00		NIST Webbook
rinpol	909.00		NIST Webbook
rinpol	862.00		NIST Webbook
rinpol	909.00		NIST Webbook
tb	407.90 ± 4.00	K	NIST Webbook
tb	409.20 ± 2.00	K	NIST Webbook
tb	408.00 ± 3.00	K	NIST Webbook
tc	628.83	K	Joback Method
tf	201.30	K	Joback Method
vc	0.396	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	200.27	J/molxK	415.07	Joback Method
cpg	274.56	J/molxK	593.20	Joback Method
cpg	261.28	J/molxK	557.58	Joback Method
cpg	247.23	J/molxK	521.95	Joback Method
cpg	232.39	J/molxK	486.32	Joback Method
cpg	216.74	J/molxK	450.70	Joback Method
cpg	287.10	J/molxK	628.83	Joback Method
dvisc	0.0002294	Paxs	415.07	Joback Method
dvisc	0.0003223	Paxs	379.44	Joback Method
dvisc	0.0004857	Paxs	343.81	Joback Method
dvisc	0.0008048	Paxs	308.18	Joback Method
dvisc	0.0015219	Paxs	272.56	Joback Method
dvisc	0.0034856	Paxs	236.93	Joback Method
dvisc	0.0107049	Paxs	201.30	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1453254&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1453254&amp;Units=SI</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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