

# Cyclooctene, 3-methyl-

<b>Inchi:</b>	InChI=1S/C9H16/c1-9-7-5-3-2-4-6-8-9/h5,7,9H,2-4,6,8H2,1H3
<b>InchiKey:</b>	VGMAAJKEQOXIML-UHFFFAOYSA-N
<b>Formula:</b>	C9H16
<b>SMILES:</b>	CC1C=CCCCC1
<b>Mol. weight [g/mol]:</b>	124.22
<b>CAS:</b>	13152-05-1

## Physical Properties

Property code	Value	Unit	Source
gf	55.11	kJ/mol	Joback Method
hf	-129.31	kJ/mol	Joback Method
hfus	7.92	kJ/mol	Joback Method
hvap	36.69	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	3.143		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	3117.52	kPa	Joback Method
rinpol	958.00		NIST Webbook
rinpol	958.00		NIST Webbook
rinpol	958.00		NIST Webbook
tb	432.57	K	Joback Method
tc	650.62	K	Joback Method
tf	192.29	K	Joback Method
vc	0.443	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	239.90	J/molxK	432.57	Joback Method
cpg	259.46	J/molxK	468.91	Joback Method
cpg	278.04	J/molxK	505.25	Joback Method
cpg	295.66	J/molxK	541.59	Joback Method
cpg	312.33	J/molxK	577.93	Joback Method
cpg	328.06	J/molxK	614.28	Joback Method

cpg	342.86	J/mol×K	650.62	Joback Method
dvisc	0.0212194	Paxs	192.29	Joback Method
dvisc	0.0049975	Paxs	232.34	Joback Method
dvisc	0.0018006	Paxs	272.38	Joback Method
dvisc	0.0008429	Paxs	312.43	Joback Method
dvisc	0.0004688	Paxs	352.48	Joback Method
dvisc	0.0002939	Paxs	392.52	Joback Method
dvisc	0.0002009	Paxs	432.57	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=C13152051&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13152051&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>

## 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>rinpola:</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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