

# Cyclooctene, 1-propyl

<b>Inchi:</b>	InChI=1S/C11H20/c1-2-8-11-9-6-4-3-5-7-10-11/h9H,2-8,10H2,1H3/b11-9-
<b>InchiKey:</b>	VGDXPDQRKOJEZ-LUAWRHEFSA-N
<b>Formula:</b>	C11H20
<b>SMILES:</b>	CCCC1=CCCCCCC1
<b>Mol. weight [g/mol]:</b>	152.28

## Physical Properties

Property code	Value	Unit	Source
gf	70.03	kJ/mol	Joback Method
hf	-161.72	kJ/mol	Joback Method
hfus	11.64	kJ/mol	Joback Method
hvap	42.12	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	4.067		Crippen Method
mvol	150.690	ml/mol	McGowan Method
pc	2589.85	kPa	Joback Method
rinpol	1166.00		NIST Webbook
tb	487.98	K	Joback Method
tc	701.49	K	Joback Method
tf	231.59	K	Joback Method
vc	0.555	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.50	J/mol×K	487.98	Joback Method
cpg	424.83	J/mol×K	665.91	Joback Method
cpg	408.39	J/mol×K	630.32	Joback Method
cpg	390.97	J/mol×K	594.74	Joback Method
cpg	372.52	J/mol×K	559.15	Joback Method
cpg	353.04	J/mol×K	523.57	Joback Method
cpg	440.29	J/mol×K	701.49	Joback Method
dvisc	0.0001542	Paxs	487.98	Joback Method
dvisc	0.0002285	Paxs	445.25	Joback Method

dvisc	0.0003679	Paxs	402.52	Joback Method
dvisc	0.0006633	Paxs	359.78	Joback Method
dvisc	0.0014020	Paxs	317.05	Joback Method
dvisc	0.0037414	Paxs	274.32	Joback Method
dvisc	0.0143433	Paxs	231.59	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=R133394&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R133394&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.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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