

# 1,3-Cyclopentadiene, 1-octyl

<b>Inchi:</b>	InChI=1S/C13H22/c1-2-3-4-5-6-7-10-13-11-8-9-12-13/h8-9,11H,2-7,10,12H2,1H3
<b>InchiKey:</b>	JGLVQJXCFCINBL-UHFFFAOYSA-N
<b>Formula:</b>	C13H22
<b>SMILES:</b>	CCCCCCCC1=CC=CC1
<b>Mol. weight [g/mol]:</b>	178.31

## Physical Properties

Property code	Value	Unit	Source
gf	153.13	kJ/mol	Joback Method
hf	-126.74	kJ/mol	Joback Method
hfus	24.35	kJ/mol	Joback Method
hvap	46.34	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.623		Crippen Method
mcvol	174.570	ml/mol	McGowan Method
pc	2073.65	kPa	Joback Method
rinpol	1310.00		NIST Webbook
ripol	1507.30		NIST Webbook
tb	520.09	K	Joback Method
tc	708.26	K	Joback Method
tf	265.45	K	Joback Method
vc	0.677	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.99	J/mol×K	520.09	Joback Method
cpg	489.93	J/mol×K	676.90	Joback Method
cpg	475.58	J/mol×K	645.54	Joback Method
cpg	460.44	J/mol×K	614.17	Joback Method
cpg	444.49	J/mol×K	582.81	Joback Method
cpg	427.68	J/mol×K	551.45	Joback Method
cpg	503.54	J/mol×K	708.26	Joback Method
dvisc	0.0002403	Paxs	520.09	Joback Method

dvisc	0.0003078	Paxs	477.65	Joback Method
dvisc	0.0004139	Paxs	435.21	Joback Method
dvisc	0.0005933	Paxs	392.77	Joback Method
dvisc	0.0009280	Paxs	350.33	Joback Method
dvisc	0.0016419	Paxs	307.89	Joback Method
dvisc	0.0034868	Paxs	265.45	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=R40756&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R40756&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>ripol:</b>	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

Latest version available from:

<https://www.chemeo.com/cid/80-056-1/1-3-Cyclopentadiene-1-octyl.pdf>

Generated by Cheméo on 2024-04-30 09:08:17.408441672 +0000 UTC m=+16757346.329019000.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.