

# 1,3-Cyclopentadiene, 1-nonyl

<b>Inchi:</b>	InChI=1S/C14H24/c1-2-3-4-5-6-7-8-11-14-12-9-10-13-14/h9-10,12H,2-8,11,13H2,1H3
<b>InchiKey:</b>	VDLGNFZFTOJYQG-UHFFFAOYSA-N
<b>Formula:</b>	C14H24
<b>SMILES:</b>	CCCCCCCCC1=CC=CC1
<b>Mol. weight [g/mol]:</b>	192.34

## Physical Properties

Property code	Value	Unit	Source
gf	161.55	kJ/mol	Joback Method
hf	-147.38	kJ/mol	Joback Method
hfus	26.93	kJ/mol	Joback Method
hvap	48.57	kJ/mol	Joback Method
log10ws	-5.28		Crippen Method
logp	5.013		Crippen Method
mcvol	188.660	ml/mol	McGowan Method
pc	1903.58	kPa	Joback Method
rinpol	1410.00		NIST Webbook
rinpol	1410.00		NIST Webbook
tb	542.97	K	Joback Method
tc	728.99	K	Joback Method
tf	276.72	K	Joback Method
vc	0.734	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.53	J/molxK	542.97	Joback Method
cpg	477.79	J/molxK	573.97	Joback Method
cpg	495.14	J/molxK	604.98	Joback Method
cpg	511.62	J/molxK	635.98	Joback Method
cpg	527.26	J/molxK	666.99	Joback Method
cpg	542.11	J/molxK	697.99	Joback Method
cpg	556.20	J/molxK	728.99	Joback Method
dvisc	0.0034676	Paxs	276.72	Joback Method

dvisc	0.0016034	Paxs	321.10	Joback Method
dvisc	0.0008941	Paxs	365.47	Joback Method
dvisc	0.0005658	Paxs	409.85	Joback Method
dvisc	0.0003916	Paxs	454.22	Joback Method
dvisc	0.0002893	Paxs	498.60	Joback Method
dvisc	0.0002246	Paxs	542.97	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R40742&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R40742&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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