

# 7-Octenylcyclopentane

<b>Inchi:</b>	InChI=1S/C13H24/c1-2-3-4-5-6-7-10-13-11-8-9-12-13/h2,13H,1,3-12H2
<b>InchiKey:</b>	VXXAPQAFRHIOBP-UHFFFAOYSA-N
<b>Formula:</b>	C13H24
<b>SMILES:</b>	C=CCCCCCCC1CCCC1
<b>Mol. weight [g/mol]:</b>	180.33

## Physical Properties

Property code	Value	Unit	Source
gf	182.97	kJ/mol	Joback Method
hf	-125.74	kJ/mol	Joback Method
hfus	22.08	kJ/mol	Joback Method
hvap	44.12	kJ/mol	Joback Method
log10ws	-4.77		Crippen Method
logp	4.703		Crippen Method
mcvol	178.870	ml/mol	McGowan Method
pc	1985.89	kPa	Joback Method
rinsol	1327.00		NIST Webbook
tb	508.80	K	Joback Method
tc	695.91	K	Joback Method
tf	245.41	K	Joback Method
vc	0.685	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	425.30	J/molxK	508.80	Joback Method
cpg	515.79	J/molxK	664.72	Joback Method
cpg	499.52	J/molxK	633.54	Joback Method
cpg	482.38	J/molxK	602.35	Joback Method
cpg	464.32	J/molxK	571.17	Joback Method
cpg	445.31	J/molxK	539.98	Joback Method
cpg	531.21	J/molxK	695.91	Joback Method
dvisc	0.0002718	Paxs	508.80	Joback Method
dvisc	0.0003512	Paxs	464.90	Joback Method

dvisc	0.0004786	Paxs	421.00	Joback Method
dvisc	0.0007010	Paxs	377.11	Joback Method
dvisc	0.0011353	Paxs	333.21	Joback Method
dvisc	0.0021286	Paxs	289.31	Joback Method
dvisc	0.0049972	Paxs	245.41	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R388960&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R388960&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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