

# trans-4,7-octadienyl-cyclopropane

<b>Inchi:</b>	InChI=1S/C11H18/c1-2-3-4-5-6-7-8-11-9-10-11/h2,4-5,11H,1,3,6-10H2/b5-4+
<b>InchiKey:</b>	PNOJXXHXBPDMJ-SNAWJCMRSA-N
<b>Formula:</b>	C11H18
<b>SMILES:</b>	C=CCC=CCCC1CC1
<b>Mol. weight [g/mol]:</b>	150.26

## Physical Properties

Property code	Value	Unit	Source
gf	270.55	kJ/mol	Joback Method
hf	45.08	kJ/mol	Joback Method
hfus	21.30	kJ/mol	Joback Method
hvap	39.28	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	3.699		Crippen Method
mcvol	146.390	ml/mol	McGowan Method
pc	2379.54	kPa	Joback Method
rinpol	1085.90		NIST Webbook
rinpol	1083.30		NIST Webbook
tb	458.66	K	Joback Method
tc	644.75	K	Joback Method
tf	224.83	K	Joback Method
vc	0.570	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.46	J/mol×K	458.66	Joback Method
cpg	330.10	J/mol×K	489.68	Joback Method
cpg	345.80	J/mol×K	520.69	Joback Method
cpg	360.62	J/mol×K	551.71	Joback Method
cpg	374.60	J/mol×K	582.72	Joback Method
cpg	387.81	J/mol×K	613.74	Joback Method
cpg	400.29	J/mol×K	644.75	Joback Method
dvisc	0.0018403	Paxs	224.83	Joback Method

dvisc	0.0011306	Paxs	263.80	Joback Method
dvisc	0.0007874	Paxs	302.77	Joback Method
dvisc	0.0005955	Paxs	341.75	Joback Method
dvisc	0.0004769	Paxs	380.72	Joback Method
dvisc	0.0003980	Paxs	419.69	Joback Method
dvisc	0.0003426	Paxs	458.66	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=R138186&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R138186&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>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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