

# Undecane, 4-cyclohexyl-

<b>Other names:</b>	(1-Propyloctyl)cyclohexane Cyclohexane, 1-propyloctyl
<b>Inchi:</b>	InChI=1S/C17H34/c1-3-5-6-7-9-13-16(12-4-2)17-14-10-8-11-15-17/h16-17H,3-15H2,1-2H
<b>InchiKey:</b>	PZCVWZRFNUJQOK-UHFFFAOYSA-N
<b>Formula:</b>	C17H34
<b>SMILES:</b>	CCCCCCCC(CCC)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	238.45
<b>CAS:</b>	13151-79-6

## Physical Properties

Property code	Value	Unit	Source
gf	114.27	kJ/mol	Joback Method
hf	-345.17	kJ/mol	Joback Method
hfus	28.10	kJ/mol	Joback Method
hvap	53.48	kJ/mol	Joback Method
log10ws	-6.35		Crippen Method
logp	6.344		Crippen Method
mvol	239.530	ml/mol	McGowan Method
pc	1438.07	kPa	Joback Method
rinpol	1689.00		NIST Webbook
rinpol	1689.00		NIST Webbook
tb	607.47	K	Joback Method
tc	792.62	K	Joback Method
tf	273.73	K	Joback Method
vc	0.914	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	662.62	J/mol×K	607.47	Joback Method
cpg	685.84	J/mol×K	638.33	Joback Method
cpg	707.92	J/mol×K	669.19	Joback Method
cpg	728.89	J/mol×K	700.05	Joback Method
cpg	748.78	J/mol×K	730.90	Joback Method

cpg	767.63	J/mol×K	761.76	Joback Method
cpg	785.47	J/mol×K	792.62	Joback Method
dvisc	0.0087760	Paxs	273.73	Joback Method
dvisc	0.0024421	Paxs	329.35	Joback Method
dvisc	0.0009835	Paxs	384.98	Joback Method
dvisc	0.0004983	Paxs	440.60	Joback Method
dvisc	0.0002941	Paxs	496.22	Joback Method
dvisc	0.0001930	Paxs	551.85	Joback Method
dvisc	0.0001368	Paxs	607.47	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C13151796&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13151796&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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