

# Tridecane, 3-cyclohexyl-

<b>Other names:</b>	(1-Ethylundecyl)cyclohexane Cyclohexane, 1-ethylundecyl
<b>Inchi:</b>	InChI=1S/C19H38/c1-3-5-6-7-8-9-10-12-15-18(4-2)19-16-13-11-14-17-19/h18-19H,3-17H
<b>InchiKey:</b>	YXWVQAFTXZTRSX-UHFFFAOYSA-N
<b>Formula:</b>	C19H38
<b>SMILES:</b>	CCCCCCCCCCC(CC)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	266.50
<b>CAS:</b>	13151-88-7

## Physical Properties

Property code	Value	Unit	Source
gf	131.11	kJ/mol	Joback Method
hf	-386.45	kJ/mol	Joback Method
hfus	33.28	kJ/mol	Joback Method
hvap	57.93	kJ/mol	Joback Method
log10ws	-7.19		Crippen Method
logp	7.124		Crippen Method
mcvol	267.710	ml/mol	McGowan Method
pc	1249.49	kPa	Joback Method
rinpol	1921.00		NIST Webbook
rinpol	1921.00		NIST Webbook
tb	653.23	K	Joback Method
tc	835.39	K	Joback Method
tf	296.27	K	Joback Method
vc	1.026	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	779.15	J/molxK	653.23	Joback Method
cpg	885.42	J/molxK	805.03	Joback Method
cpg	866.35	J/molxK	774.67	Joback Method
cpg	846.23	J/molxK	744.31	Joback Method
cpg	825.01	J/molxK	713.95	Joback Method

cpg	802.67	J/mol×K	683.59	Joback Method
cpg	903.46	J/mol×K	835.39	Joback Method
dvisc	0.0001079	Paxs	653.23	Joback Method
dvisc	0.0001526	Paxs	593.74	Joback Method
dvisc	0.0002333	Paxs	534.24	Joback Method
dvisc	0.0003965	Paxs	474.75	Joback Method
dvisc	0.0007846	Paxs	415.26	Joback Method
dvisc	0.0019506	Paxs	355.76	Joback Method
dvisc	0.0069912	Paxs	296.27	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=C13151887&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13151887&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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