

# 1-Heptadecene, 13-methyl

<b>Inchi:</b>	InChI=1S/C18H36/c1-4-6-8-9-10-11-12-13-14-15-17-18(3)16-7-5-2/h4,18H,1,5-17H2,2-3
<b>InchiKey:</b>	XVXPZBCYYFNXTJ-UHFFFAOYSA-N
<b>Formula:</b>	C18H36
<b>SMILES:</b>	C=CCCCCCCCCCC(C)CCCC
<b>Mol. weight [g/mol]:</b>	252.48

## Physical Properties

Property code	Value	Unit	Source
gf	186.08	kJ/mol	Joback Method
hf	-294.70	kJ/mol	Joback Method
hfus	37.57	kJ/mol	Joback Method
hvap	54.60	kJ/mol	Joback Method
log10ws	-6.97		Crippen Method
logp	6.900		Crippen Method
mcvol	260.180	ml/mol	McGowan Method
pc	1192.35	kPa	Joback Method
tb	607.48	K	Joback Method
tc	770.34	K	Joback Method
tf	275.86	K	Joback Method
vc	1.018	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	701.50	J/molxK	607.48	Joback Method
cpg	721.46	J/molxK	634.62	Joback Method
cpg	740.58	J/molxK	661.77	Joback Method
cpg	758.90	J/molxK	688.91	Joback Method
cpg	776.45	J/molxK	716.06	Joback Method
cpg	793.24	J/molxK	743.20	Joback Method
cpg	809.31	J/molxK	770.34	Joback Method
dvisc	0.0059795	Paxs	275.86	Joback Method
dvisc	0.0018068	Paxs	331.13	Joback Method
dvisc	0.0007688	Paxs	386.40	Joback Method

dvisc	0.0004052	Paxs	441.67	Joback Method
dvisc	0.0002462	Paxs	496.94	Joback Method
dvisc	0.0001653	Paxs	552.21	Joback Method
dvisc	0.0001193	Paxs	607.48	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R46897&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R46897&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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