

# 1-Pentadecene, 9-methyl

Inchi:	InChI=1S/C16H32/c1-4-6-8-10-11-13-15-16(3)14-12-9-7-5-2/h4,16H,1,5-15H2,2-3H3
InchiKey:	KBOLYXFHRRBRED-UHFFFAOYSA-N
Formula:	C16H32
SMILES:	C=CCCCCCCC(C)CCCCC
Mol. weight [g/mol]:	224.43

## Physical Properties

Property code	Value	Unit	Source
gf	169.24	kJ/mol	Joback Method
hf	-253.42	kJ/mol	Joback Method
hfus	32.39	kJ/mol	Joback Method
hvap	50.15	kJ/mol	Joback Method
log10ws	-6.13		Crippen Method
logp	6.120		Crippen Method
mcvol	232.000	ml/mol	McGowan Method
pc	1367.69	kPa	Joback Method
rinsol	1539.00		NIST Webbook
tb	561.72	K	Joback Method
tc	725.31	K	Joback Method
tf	253.32	K	Joback Method
vc	0.906	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	591.12	J/molxK	561.72	Joback Method
cpg	610.21	J/molxK	588.99	Joback Method
cpg	628.52	J/molxK	616.25	Joback Method
cpg	646.08	J/molxK	643.52	Joback Method
cpg	662.89	J/molxK	670.78	Joback Method
cpg	679.00	J/molxK	698.05	Joback Method
cpg	694.42	J/molxK	725.31	Joback Method
dvisc	0.0071217	Paxs	253.32	Joback Method
dvisc	0.0021629	Paxs	304.72	Joback Method

dvisc	0.0009266	Paxs	356.12	Joback Method
dvisc	0.0004916	Paxs	407.52	Joback Method
dvisc	0.0003006	Paxs	458.92	Joback Method
dvisc	0.0002030	Paxs	510.32	Joback Method
dvisc	0.0001472	Paxs	561.72	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R47031&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R47031&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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