

# 3-heptadecene

Inchi:	InChI=1S/C17H34/c1-3-5-7-9-11-13-15-17-16-14-12-10-8-6-4-2/h5,7H,3-4,6,8-17H2,1-2H
InchiKey:	YICJXYRVTBRLKS-FNORWQNLSA-N
Formula:	C17H34
SMILES:	CCC=CCCCCCCCCCCCC
Mol. weight [g/mol]:	238.45
CAS:	---

## Physical Properties

Property code	Value	Unit	Source
gf	172.48	kJ/mol	Joback Method
hf	-276.99	kJ/mol	Joback Method
hfus	39.99	kJ/mol	Joback Method
hvap	53.39	kJ/mol	Joback Method
log10ws	-6.79		Crippen Method
logp	6.654		Crippen Method
mcvol	246.090	ml/mol	McGowan Method
pc	1277.33	kPa	Joback Method
rinpol	1692.00		NIST Webbook
rinpol	1694.00		NIST Webbook
ripol	1756.00		NIST Webbook
tb	592.52	K	Joback Method
tc	756.35	K	Joback Method
tf	276.27	K	Joback Method
vc	0.968	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	648.17	J/molxK	592.52	Joback Method
cpg	667.50	J/molxK	619.83	Joback Method
cpg	686.02	J/molxK	647.13	Joback Method
cpg	703.76	J/molxK	674.44	Joback Method
cpg	720.76	J/molxK	701.74	Joback Method
cpg	737.03	J/molxK	729.05	Joback Method

cpg	752.62	J/mol×K	756.35	Joback Method
dvisc	0.0044937	Paxs	276.27	Joback Method
dvisc	0.0015040	Paxs	328.98	Joback Method
dvisc	0.0006810	Paxs	381.69	Joback Method
dvisc	0.0003738	Paxs	434.39	Joback Method
dvisc	0.0002336	Paxs	487.10	Joback Method
dvisc	0.0001600	Paxs	539.81	Joback Method
dvisc	0.0001172	Paxs	592.52	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.63581e+01
Coeff. B	-5.44078e+03
Coeff. C	-1.00764e+02
Temperature range (K), min.	439.32
Temperature range (K), max.	593.29

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R485640&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R485640&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>pvap:</b>	Vapor pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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