

# 2-methyl-1-heptadecene

<b>Inchi:</b>	InChI=1S/C18H36/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18(2)3/h2,4-17H2,1,3H3
<b>InchiKey:</b>	ZKRHEOXJNQPNQD-UHFFFAOYSA-N
<b>Formula:</b>	C18H36
<b>SMILES:</b>	<chem>C=C(C)CCCCCCCCCCCCCCC</chem>
<b>Mol. weight [g/mol]:</b>	252.48
<b>CAS:</b>	42764-74-9

## Physical Properties

Property code	Value	Unit	Source
gf	179.97	kJ/mol	Joback Method
hf	-299.21	kJ/mol	Joback Method
hfus	39.79	kJ/mol	Joback Method
hvap	55.07	kJ/mol	Joback Method
log10ws	-7.21		Crippen Method
logp	7.044		Crippen Method
mcvol	260.180	ml/mol	McGowan Method
pc	1189.88	kPa	Joback Method
rinpol	1787.00		NIST Webbook
tb	607.80	K	Joback Method
tc	770.33	K	Joback Method
tf	276.90	K	Joback Method
vc	1.026	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	700.94	J/mol×K	607.80	Joback Method
cpg	720.78	J/mol×K	634.89	Joback Method
cpg	739.80	J/mol×K	661.98	Joback Method
cpg	758.04	J/mol×K	689.06	Joback Method
cpg	775.51	J/mol×K	716.15	Joback Method
cpg	792.24	J/mol×K	743.24	Joback Method
cpg	808.26	J/mol×K	770.33	Joback Method

# Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.55122e+01
Coeff. B	-5.28146e+03
Coeff. C	-9.40000e+01
Temperature range (K), min.	440.90
Temperature range (K), max.	611.76

## Sources

Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="https://webbook.nist.gov/cgi/cbook.cgi?ID=R205800&amp;Units=SI">https://webbook.nist.gov/cgi/cbook.cgi?ID=R205800&amp;Units=SI</a>
The Yaws Handbook of Vapor Pressure:	<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>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>tb:</b>	Normal Boiling Point Temperature

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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