

# (E)-3-Pentadecene

<b>Other names:</b>	trans-3-Pentadecene
<b>Inchi:</b>	InChI=1S/C15H30/c1-3-5-7-9-11-13-15-14-12-10-8-6-4-2/h5,7H,3-4,6,8-15H2,1-2H3/b7-5
<b>InchiKey:</b>	WNBDFALPKHFDJO-FNORWQNLSA-N
<b>Formula:</b>	C15H30
<b>SMILES:</b>	CCC=CCCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	210.40

## Physical Properties

Property code	Value	Unit	Source
gf	155.64	kJ/mol	Joback Method
hf	-235.71	kJ/mol	Joback Method
hfus	34.81	kJ/mol	Joback Method
hvap	48.94	kJ/mol	Joback Method
log10ws	-5.95		Crippen Method
logp	5.873		Crippen Method
mcvol	217.910	ml/mol	McGowan Method
pc	1472.49	kPa	Joback Method
rinpol	1491.00		NIST Webbook
rinpol	1484.10		NIST Webbook
rinpol	1485.00		NIST Webbook
rinpol	1485.70		NIST Webbook
rinpol	1491.00		NIST Webbook
rinpol	1484.60		NIST Webbook
rinpol	1485.00		NIST Webbook
rinpol	1491.00		NIST Webbook
rinpol	1484.10		NIST Webbook
ripol	1523.00		NIST Webbook
ripol	1523.00		NIST Webbook
ripol	1540.00		NIST Webbook
ripol	1540.00		NIST Webbook
ripol	1522.80		NIST Webbook
ripol	1540.00		NIST Webbook
tb	546.76	K	Joback Method
tc	711.80	K	Joback Method
tf	253.73	K	Joback Method
vc	0.856	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	540.45	J/molxK	546.76	Joback Method
cpg	558.86	J/molxK	574.27	Joback Method
cpg	576.50	J/molxK	601.77	Joback Method
cpg	593.41	J/molxK	629.28	Joback Method
cpg	609.60	J/molxK	656.78	Joback Method
cpg	625.10	J/molxK	684.29	Joback Method
cpg	639.95	J/molxK	711.80	Joback Method
dvisc	0.0051562	Paxs	253.73	Joback Method
dvisc	0.0017495	Paxs	302.57	Joback Method
dvisc	0.0008016	Paxs	351.41	Joback Method
dvisc	0.0004444	Paxs	400.25	Joback Method
dvisc	0.0002801	Paxs	449.08	Joback Method
dvisc	0.0001932	Paxs	497.92	Joback Method
dvisc	0.0001425	Paxs	546.76	Joback Method

## Sources

<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=R97826&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R97826&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>

## 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>ripol:</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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