

# trans-5-Hexadecene

<b>Other names:</b>	(E)-5-Hexadecene 5-Hexadecene, (E)
<b>Inchi:</b>	InChI=1S/C16H32/c1-3-5-7-9-11-13-15-16-14-12-10-8-6-4-2/h9,11H,3-8,10,12-16H2,1-2H
<b>InchiKey:</b>	IYJCOKOQWJTHO-PKQNBQFBNSA-N
<b>Formula:</b>	C16H32
<b>SMILES:</b>	CCCCC=CCCCCCCCCCC
<b>Mol. weight [g/mol]:</b>	224.43

## Physical Properties

Property code	Value	Unit	Source
gf	164.06	kJ/mol	Joback Method
hf	-256.35	kJ/mol	Joback Method
hfus	37.40	kJ/mol	Joback Method
hvap	51.17	kJ/mol	Joback Method
log10ws	-6.37		Crippen Method
logp	6.264		Crippen Method
mccvol	232.000	ml/mol	McGowan Method
pc	1369.71	kPa	Joback Method
rinpol	1579.30		NIST Webbook
rinpol	1580.50		NIST Webbook
rinpol	1578.00		NIST Webbook
rinpol	1579.30		NIST Webbook
rinpol	1579.00		NIST Webbook
ripol	1614.00		NIST Webbook
ripol	1613.50		NIST Webbook
tb	569.64	K	Joback Method
tc	733.96	K	Joback Method
tf	265.00	K	Joback Method
vc	0.911	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	593.58	J/mol×K	569.64	Joback Method

cpg	612.46	J/molxK	597.03	Joback Method
cpg	630.57	J/molxK	624.41	Joback Method
cpg	647.91	J/molxK	651.80	Joback Method
cpg	664.52	J/molxK	679.18	Joback Method
cpg	680.43	J/molxK	706.57	Joback Method
cpg	695.67	J/molxK	733.96	Joback Method
dvisc	0.0048369	Paxs	265.00	Joback Method
dvisc	0.0016294	Paxs	315.77	Joback Method
dvisc	0.0007420	Paxs	366.55	Joback Method
dvisc	0.0004092	Paxs	417.32	Joback Method
dvisc	0.0002567	Paxs	468.09	Joback Method
dvisc	0.0001765	Paxs	518.87	Joback Method
dvisc	0.0001297	Paxs	569.64	Joback Method

## 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=R97858&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R97858&amp;Units=SI</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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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