

# 1,7,10,13-Hexadecatetraene

<b>Inchi:</b>	InChI=1S/C16H26/c1-3-5-7-9-11-13-15-16-14-12-10-8-6-4-2/h3,6,8,12-15H,1,4-5,7,9-11,
<b>InchiKey:</b>	YKFPTPBZTVYMMC-POIBZBIISA-N
<b>Formula:</b>	C16H26
<b>SMILES:</b>	C=CCCCCC=CCC=CCC=CCC
<b>Mol. weight [g/mol]:</b>	218.38

## Physical Properties

Property code	Value	Unit	Source
gf	412.34	kJ/mol	Joback Method
hf	103.52	kJ/mol	Joback Method
hfus	36.52	kJ/mol	Joback Method
hvap	50.41	kJ/mol	Joback Method
log10ws	-5.93		Crippen Method
logp	5.592		Crippen Method
mcvol	219.100	ml/mol	McGowan Method
pc	1530.66	kPa	Joback Method
rinsol	1561.00		NIST Webbook
ripol	1769.00		NIST Webbook
tb	574.64	K	Joback Method
tc	754.30	K	Joback Method
tf	253.08	K	Joback Method
vc	0.853	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	535.60	J/mol×K	574.64	Joback Method
cpg	553.42	J/mol×K	604.58	Joback Method
cpg	570.35	J/mol×K	634.53	Joback Method
cpg	586.42	J/mol×K	664.47	Joback Method
cpg	601.68	J/mol×K	694.42	Joback Method
cpg	616.21	J/mol×K	724.36	Joback Method
cpg	630.04	J/mol×K	754.30	Joback Method
dvisc	0.0040046	Paxs	253.08	Joback Method

dvisc	0.0012548	Paxs	306.67	Joback Method
dvisc	0.0005553	Paxs	360.27	Joback Method
dvisc	0.0003035	Paxs	413.86	Joback Method
dvisc	0.0001905	Paxs	467.45	Joback Method
dvisc	0.0001316	Paxs	521.05	Joback Method
dvisc	0.0000974	Paxs	574.64	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=R76292&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R76292&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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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