

# (4Z,6Z)-4,6-hexadecandien-1-ol

Inchi:	InChI=1S/C16H30O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17/h10-13,17H,2-9,14-16H
InchiKey:	WRYCXDWXELTMPO-FQEMRORKSA-N
Formula:	C16H30O
SMILES:	CCCCCCCCC=CC=CCCCO
Mol. weight [g/mol]:	238.41

## Physical Properties

Property code	Value	Unit	Source
gf	107.46	kJ/mol	Joback Method
hf	-291.36	kJ/mol	Joback Method
hfus	41.69	kJ/mol	Joback Method
hvap	67.81	kJ/mol	Joback Method
log10ws	-5.49		Crippen Method
logp	5.012		Crippen Method
mcvol	233.570	ml/mol	McGowan Method
pc	1528.27	kPa	Joback Method
rinpol	1925.00		NIST Webbook
tb	665.98	K	Joback Method
tc	833.90	K	Joback Method
tf	320.74	K	Joback Method
vc	0.910	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	649.91	J/molxK	665.98	Joback Method
cpg	665.88	J/molxK	693.97	Joback Method
cpg	681.15	J/molxK	721.95	Joback Method
cpg	695.75	J/molxK	749.94	Joback Method
cpg	709.70	J/molxK	777.93	Joback Method
cpg	723.06	J/molxK	805.91	Joback Method
cpg	735.86	J/molxK	833.90	Joback Method
dvisc	0.0083725	Paxs	320.74	Joback Method
dvisc	0.0016004	Paxs	378.28	Joback Method

dvisc	0.0004736	Paxs	435.82	Joback Method
dvisc	0.0001862	Paxs	493.36	Joback Method
dvisc	0.0000889	Paxs	550.90	Joback Method
dvisc	0.0000489	Paxs	608.44	Joback Method
dvisc	0.0000298	Paxs	665.98	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=R506415&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R506415&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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