

# 2-hexadecenal, Z

Inchi:	InChI=1S/C16H30O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17/h14-16H,2-13H2,1H3/t
InchiKey:	KLJFYXOVGVXZKT-PFONDFGASA-N
Formula:	C16H30O
SMILES:	CCCCCCCCCCCC=CC=O
Mol. weight [g/mol]:	238.41

## Physical Properties

Property code	Value	Unit	Source
gf	64.54	kJ/mol	Joback Method
hf	-341.93	kJ/mol	Joback Method
hfus	39.69	kJ/mol	Joback Method
hvap	57.89	kJ/mol	Joback Method
log10ws	-5.65		Crippen Method
logp	5.443		Crippen Method
mvol	233.570	ml/mol	McGowan Method
pc	1447.94	kPa	Joback Method
rinpol	1879.00		NIST Webbook
tb	618.30	K	Joback Method
tc	787.48	K	Joback Method
tf	307.00	K	Joback Method
vc	0.928	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.39	J/molxK	618.30	Joback Method
cpg	641.87	J/molxK	646.50	Joback Method
cpg	658.57	J/molxK	674.69	Joback Method
cpg	674.53	J/molxK	702.89	Joback Method
cpg	689.77	J/molxK	731.09	Joback Method
cpg	704.32	J/molxK	759.29	Joback Method
cpg	718.22	J/molxK	787.48	Joback Method
dvisc	0.0038359	Paxs	307.00	Joback Method
dvisc	0.0015057	Paxs	358.88	Joback Method

dvisc	0.0007485	Paxs	410.77	Joback Method
dvisc	0.0004352	Paxs	462.65	Joback Method
dvisc	0.0002823	Paxs	514.53	Joback Method
dvisc	0.0001983	Paxs	566.42	Joback Method
dvisc	0.0001477	Paxs	618.30	Joback Method

## Sources

<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=R275597&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R275597&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>
<b>Crippen Method:</b>	<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>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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