

# Z,Z-10,12-Hexadecadienal

<b>Other names:</b>	(Z)-10,12-Hexadecadienal
<b>Inchi:</b>	InChI=1S/C16H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17/h4-7,16H,2-3,8-15H2,1
<b>InchiKey:</b>	OSFASEAZCNYZBW-RZSVFLSASA-N
<b>Formula:</b>	C16H28O
<b>SMILES:</b>	CCCC=CC=CCCCCCCCC=O
<b>Mol. weight [g/mol]:</b>	236.39

## Physical Properties

Property code	Value	Unit	Source
gf	144.76	kJ/mol	Joback Method
hf	-224.71	kJ/mol	Joback Method
hfus	39.89	kJ/mol	Joback Method
hvap	57.85	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	5.219		Crippen Method
mcvol	229.270	ml/mol	McGowan Method
pc	1506.98	kPa	Joback Method
tb	622.46	K	Joback Method
tc	797.26	K	Joback Method
tf	301.92	K	Joback Method
vc	0.908	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	604.25	J/molxK	622.46	Joback Method
cpg	681.97	J/molxK	768.13	Joback Method
cpg	667.88	J/molxK	739.00	Joback Method
cpg	653.10	J/molxK	709.86	Joback Method
cpg	637.60	J/molxK	680.73	Joback Method
cpg	621.33	J/molxK	651.59	Joback Method
cpg	695.41	J/molxK	797.26	Joback Method
dvisc	0.0001266	Paxs	622.46	Joback Method
dvisc	0.0001702	Paxs	569.04	Joback Method

dvisc	0.0002433	Paxs	515.61	Joback Method
dvisc	0.0003778	Paxs	462.19	Joback Method
dvisc	0.0006579	Paxs	408.77	Joback Method
dvisc	0.0013539	Paxs	355.34	Joback Method
dvisc	0.0035968	Paxs	301.92	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U130866&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U130866&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>
<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>

## 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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