

# 9,17-Octadecadienal, (Z)-

<b>Other names:</b>	9,17-Octadecadienal
<b>Inchi:</b>	InChI=1S/C18H32O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19/h2,9-10,18H,1,3
<b>InchiKey:</b>	RXORHYFDDNAOQS-KTKRTIGZSA-N
<b>Formula:</b>	C18H32O
<b>SMILES:</b>	C=CCCCCCCC=CCCCCCCC=O
<b>Mol. weight [g/mol]:</b>	264.45
<b>CAS:</b>	56554-35-9

## Physical Properties

Property code	Value	Unit	Source
gf	169.22	kJ/mol	Joback Method
hf	-257.78	kJ/mol	Joback Method
hfus	43.59	kJ/mol	Joback Method
hvap	61.67	kJ/mol	Joback Method
log10ws	-6.34		Crippen Method
logp	5.999		Crippen Method
mcvol	257.450	ml/mol	McGowan Method
pc	1295.79	kPa	Joback Method
rinpol	2297.00		NIST Webbook
rinpol	2297.00		NIST Webbook
ripol	2372.00		NIST Webbook
ripol	2372.00		NIST Webbook
tb	660.74	K	Joback Method
tc	831.50	K	Joback Method
tf	327.78	K	Joback Method
vc	1.022	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	712.29	J/molxK	660.74	Joback Method
cpg	730.14	J/molxK	689.20	Joback Method
cpg	747.17	J/molxK	717.66	Joback Method
cpg	763.42	J/molxK	746.12	Joback Method

cpg	778.92	J/molxK	774.58	Joback Method
cpg	793.72	J/molxK	803.04	Joback Method
cpg	807.84	J/molxK	831.50	Joback Method
dvisc	0.0031667	Paxs	327.78	Joback Method
dvisc	0.0012474	Paxs	383.27	Joback Method
dvisc	0.0006220	Paxs	438.77	Joback Method
dvisc	0.0003626	Paxs	494.26	Joback Method
dvisc	0.0002357	Paxs	549.75	Joback Method
dvisc	0.0001658	Paxs	605.25	Joback Method
dvisc	0.0001237	Paxs	660.74	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=C56554359&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56554359&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>

## 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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