

# (E,E)-2,13-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/h5-6,16-18H,2-4
<b>InchiKey:</b>	NCFULMZVHNTQOK-JNHUCFJMSA-N
<b>Formula:</b>	C18H32O
<b>SMILES:</b>	CCCC=CCCCCCCCCCC=CC=O
<b>Mol. weight [g/mol]:</b>	264.45

## Physical Properties

Property code	Value	Unit	Source
gf	161.60	kJ/mol	Joback Method
hf	-265.99	kJ/mol	Joback Method
hfus	45.07	kJ/mol	Joback Method
hvap	62.30	kJ/mol	Joback Method
log10ws	-6.34		Crippen Method
logp	5.999		Crippen Method
mvol	257.450	ml/mol	McGowan Method
pc	1305.17	kPa	Joback Method
rinpol	2078.00		NIST Webbook
rinpol	2078.00		NIST Webbook
tb	668.22	K	Joback Method
tc	841.93	K	Joback Method
tf	324.46	K	Joback Method
vc	1.020	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	714.37	J/molxK	668.22	Joback Method
cpg	795.94	J/molxK	812.98	Joback Method
cpg	781.12	J/molxK	784.03	Joback Method
cpg	765.60	J/molxK	755.08	Joback Method
cpg	749.33	J/molxK	726.12	Joback Method
cpg	732.27	J/molxK	697.17	Joback Method
cpg	810.09	J/molxK	841.93	Joback Method
dvisc	0.0001016	Paxs	668.22	Joback Method

dvisc	0.0001374	Paxs	610.93	Joback Method
dvisc	0.0001978	Paxs	553.63	Joback Method
dvisc	0.0003097	Paxs	496.34	Joback Method
dvisc	0.0005452	Paxs	439.05	Joback Method
dvisc	0.0011371	Paxs	381.75	Joback Method
dvisc	0.0030745	Paxs	324.46	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=R399143&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R399143&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>c</sub>vol:</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

Latest version available from:

<https://www.chemeo.com/cid/70-941-9/E-E-2-13-octadecadienal.pdf>

Generated by Cheméo on 2024-04-27 09:45:42.44645946 +0000 UTC m=+16500391.367036773.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.