

# E-15-Heptadecenal

Inchi:	InChI=1S/C17H32O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18/h2-3,17H,4-16H2,1
InchiKey:	TWWSXAKLFHYWQT-NSCUHMNNSA-N
Formula:	C17H32O
SMILES:	CC=CCCCCCCCCCCCCCC=O
Mol. weight [g/mol]:	252.44

## Physical Properties

Property code	Value	Unit	Source
gf	72.96	kJ/mol	Joback Method
hf	-362.57	kJ/mol	Joback Method
hfus	42.28	kJ/mol	Joback Method
hvap	60.11	kJ/mol	Joback Method
log10ws	-6.07		Crippen Method
logp	5.833		Crippen Method
mcvol	247.660	ml/mol	McGowan Method
pc	1347.68	kPa	Joback Method
rinpol	2084.50		NIST Webbook
rinpol	2085.50		NIST Webbook
rinpol	2083.20		NIST Webbook
rinpol	2104.00		NIST Webbook
tb	641.18	K	Joback Method
tc	810.06	K	Joback Method
tf	318.27	K	Joback Method
vc	0.985	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	679.41	J/molxK	641.18	Joback Method
cpg	697.32	J/molxK	669.33	Joback Method
cpg	714.44	J/molxK	697.47	Joback Method
cpg	730.79	J/molxK	725.62	Joback Method
cpg	746.41	J/molxK	753.76	Joback Method
cpg	761.32	J/molxK	781.91	Joback Method

cpg	775.57	J/molxK	810.06	Joback Method
dvisc	0.0035586	Paxs	318.27	Joback Method
dvisc	0.0013828	Paxs	372.09	Joback Method
dvisc	0.0006823	Paxs	425.91	Joback Method
dvisc	0.0003945	Paxs	479.73	Joback Method
dvisc	0.0002547	Paxs	533.54	Joback Method
dvisc	0.0001782	Paxs	587.36	Joback Method
dvisc	0.0001324	Paxs	641.18	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=U130979&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U130979&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307i">http://pubs.acs.org/doi/abs/10.1021/ci990307i</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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