

# heptadecadiene-1,16

Inchi:	InChI=1S/C17H32/c1-3-5-7-9-11-13-15-17-16-14-12-10-8-6-4-2/h3-4H,1-2,5-17H2
InchiKey:	LGYMYODKHKZIEU-UHFFFAOYSA-N
Formula:	C17H32
SMILES:	C=CCCCCCCCCCCCCCC=C
Mol. weight [g/mol]:	236.44

## Physical Properties

Property code	Value	Unit	Source
gf	267.94	kJ/mol	Joback Method
hf	-143.35	kJ/mol	Joback Method
hfus	37.23	kJ/mol	Joback Method
hvap	52.10	kJ/mol	Joback Method
log10ws	-6.65		Crippen Method
logp	6.430		Crippen Method
mcvol	241.790	ml/mol	McGowan Method
pc	1307.06	kPa	Joback Method
rinpol	1679.00		NIST Webbook
rinpol	1679.00		NIST Webbook
rinpol	1682.00		NIST Webbook
ripol	1799.00		NIST Webbook
tb	581.72	K	Joback Method
tc	744.54	K	Joback Method
tf	277.83	K	Joback Method
vc	0.950	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	623.95	J/molxK	581.72	Joback Method
cpg	642.72	J/molxK	608.86	Joback Method
cpg	660.70	J/molxK	635.99	Joback Method
cpg	677.93	J/molxK	663.13	Joback Method
cpg	694.42	J/molxK	690.27	Joback Method
cpg	710.21	J/molxK	717.41	Joback Method

cpg	725.32	J/molxK	744.54	Joback Method
dvisc	0.0041882	Paxs	277.83	Joback Method
dvisc	0.0015588	Paxs	328.48	Joback Method
dvisc	0.0007555	Paxs	379.13	Joback Method
dvisc	0.0004344	Paxs	429.78	Joback Method
dvisc	0.0002806	Paxs	480.42	Joback Method
dvisc	0.0001971	Paxs	531.07	Joback Method
dvisc	0.0001472	Paxs	581.72	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R242552&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R242552&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>
<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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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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