

# (7R,8S)-cis-7,8-epoxy-2-methyloctadec-17-ene

<b>Other names:</b>	cis-7,8-epoxy-2-methyl-17-octadecene
<b>Inchi:</b>	InChI=1S/C19H36O/c1-4-5-6-7-8-9-10-11-15-18-19(20-18)16-13-12-14-17(2)3/h4,17-19H
<b>InchiKey:</b>	VEHBXHNRALNERE-UHFFFAOYSA-N
<b>Formula:</b>	C19H36O
<b>SMILES:</b>	C=CCCCCCCCC1OC1CCCC(C)C
<b>Mol. weight [g/mol]:</b>	280.49

## Physical Properties

Property code	Value	Unit	Source
gf	161.42	kJ/mol	Joback Method
hf	-394.88	kJ/mol	Joback Method
hfus	47.35	kJ/mol	Joback Method
hvap	60.94	kJ/mol	Joback Method
log10ws	-6.59		Crippen Method
logp	6.277		Crippen Method
mvol	269.280	ml/mol	McGowan Method
pc	1185.79	kPa	Joback Method
rinpol	2027.00		NIST Webbook
ripol	2304.00		NIST Webbook
tb	659.38	K	Joback Method
tc	830.99	K	Joback Method
tf	327.40	K	Joback Method
vc	1.052	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	785.77	J/molxK	659.38	Joback Method
cpg	806.30	J/molxK	687.98	Joback Method
cpg	825.88	J/molxK	716.58	Joback Method
cpg	844.55	J/molxK	745.18	Joback Method
cpg	862.36	J/molxK	773.79	Joback Method
cpg	879.34	J/molxK	802.39	Joback Method
cpg	895.54	J/molxK	830.99	Joback Method

dvisc	0.0031939	Paxs	327.40	Joback Method
dvisc	0.0016213	Paxs	382.73	Joback Method
dvisc	0.0009768	Paxs	438.06	Joback Method
dvisc	0.0006593	Paxs	493.39	Joback Method
dvisc	0.0004817	Paxs	548.72	Joback Method
dvisc	0.0003728	Paxs	604.05	Joback Method
dvisc	0.0003012	Paxs	659.38	Joback Method

## Sources

<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=R413566&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R413566&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>

## 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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