

# (E)-2-(E)-13-Octadecadien-1-ol acetate

<b>Inchi:</b>	InChI=1S/C20H36O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-22-20(2)21/h6-7,
<b>InchiKey:</b>	NWRSOYAGXTXEMK-QRNOYXLNSA-N
<b>Formula:</b>	C20H36O2
<b>SMILES:</b>	CCCCC=CCCCCCCCCCC=CCOC(C)=O
<b>Mol. weight [g/mol]:</b>	308.50

## Physical Properties

Property code	Value	Unit	Source
gf	44.04	kJ/mol	Joback Method
hf	-466.49	kJ/mol	Joback Method
hfus	50.75	kJ/mol	Joback Method
hvap	69.19	kJ/mol	Joback Method
log10ws	-6.76		Crippen Method
logp	6.363		Crippen Method
mvol	291.500	ml/mol	McGowan Method
pc	1120.05	kPa	Joback Method
ripol	2078.00		NIST Webbook
ripol	2056.00		NIST Webbook
tb	741.61	K	Joback Method
tc	919.70	K	Joback Method
tf	377.16	K	Joback Method
vc	1.139	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	862.13	J/molxK	741.61	Joback Method
cpg	946.80	J/molxK	890.02	Joback Method
cpg	931.49	J/molxK	860.34	Joback Method
cpg	915.41	J/molxK	830.65	Joback Method
cpg	898.51	J/molxK	800.97	Joback Method
cpg	880.77	J/molxK	771.29	Joback Method
cpg	961.38	J/molxK	919.70	Joback Method
dvisc	0.0000550	Paxs	741.61	Joback Method

dvisc	0.0000744	Paxs	680.87	Joback Method
dvisc	0.0001068	Paxs	620.13	Joback Method
dvisc	0.0001659	Paxs	559.38	Joback Method
dvisc	0.0002868	Paxs	498.64	Joback Method
dvisc	0.0005772	Paxs	437.90	Joback Method
dvisc	0.0014552	Paxs	377.16	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=R571701&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R571701&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>
<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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