

# 9-Tetradecen-1-ol, acetate, (Z)-

<b>Other names:</b>	(9Z)-9-Tetradecenyl acetate (Z)-9-Tetradecen-1-ol acetate (Z)-9-tetradecyl acetate (Z)-tetradec-9-enyl acetate 9-Tetradecen-1-ol, acetate, (9Z)- Z-9-Tetradecen-1-yl acetate Z-9-Tetradecenyl acetate acetic acid tetradec-9-enyl ester, cis cis-9-Tetradecenyl acetate
<b>Inchi:</b>	InChI=1S/C16H30O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-18-16(2)17/h6-7H,3-5,8-15H2
<b>InchiKey:</b>	XXPBOEBNDHAAQH-SREVYHEPSA-N
<b>Formula:</b>	C16H30O2
<b>SMILES:</b>	CCCC=CCCCCCCCOC(C)=O
<b>Mol. weight [g/mol]:</b>	254.41
<b>CAS:</b>	16725-53-4

## Physical Properties

Property code	Value	Unit	Source
gf	-69.86	kJ/mol	Joback Method
hf	-501.15	kJ/mol	Joback Method
hfus	40.18	kJ/mol	Joback Method
hvap	89.10	kJ/mol	NIST Webbook
log10ws	-5.24		Crippen Method
logp	5.027		Crippen Method
mcvol	239.440	ml/mol	McGowan Method
pc	1417.57	kPa	Joback Method
rinpol	1799.00		NIST Webbook
rinpol	1801.00		NIST Webbook
rinpol	1801.00		NIST Webbook
rinpol	1799.00		NIST Webbook
ripol	2142.00		NIST Webbook
ripol	2120.00		NIST Webbook
ripol	2120.00		NIST Webbook
ripol	2142.00		NIST Webbook
tb	645.93	K	Joback Method
tc	818.34	K	Joback Method
tf	337.16	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.12	J/molxK	645.93	Joback Method
cpg	672.59	J/molxK	674.67	Joback Method
cpg	689.29	J/molxK	703.40	Joback Method
cpg	705.23	J/molxK	732.14	Joback Method
cpg	720.44	J/molxK	760.87	Joback Method
cpg	734.94	J/molxK	789.61	Joback Method
cpg	748.76	J/molxK	818.34	Joback Method
dvisc	0.0022449	Paxs	337.16	Joback Method
dvisc	0.0009605	Paxs	388.62	Joback Method
dvisc	0.0005012	Paxs	440.08	Joback Method
dvisc	0.0002997	Paxs	491.55	Joback Method
dvisc	0.0001976	Paxs	543.01	Joback Method
dvisc	0.0001400	Paxs	594.47	Joback Method
dvisc	0.0001048	Paxs	645.93	Joback Method
hvapt	90.00	kJ/mol	310.00	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.55271e+01
Coeff. B	-5.21513e+03
Coeff. C	-1.02710e+02
Temperature range (K), min.	444.92
Temperature range (K), max.	613.21

## Sources

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C16725534&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16725534&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>pvap:</b>	Vapor 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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