

# cis-7-Dodecen-1-yl acetate

**Other names:**

(Z)-1-Acetoxy-7-dodecene  
(Z)-7-Dodecen-1-ol acetate  
(Z)-7-Dodecen-1-yl acetate  
(Z)-7-Dodecenyl acetate  
(Z)-dodec-7-enyl acetate  
7-Dodecen-1-ol, acetate, (7Z)-  
7-Dodecen-1-ol, acetate, (Z)-  
Looplure  
acetic acid dodec-7-enyl ester, cis  
cis-1-Acetoxy-7-dodecene  
cis-7-Dodecen-1-ol acetate  
cis-7-Dodecenyl acetate

**Inchi:**

InChI=1S/C14H26O2/c1-3-4-5-6-7-8-9-10-11-12-13-16-14(2)15/h6-7H,3-5,8-13H2,1-2H3

**InchiKey:**

MUZGQHWTRUVFLG-SREVYHEPSA-N

**Formula:**

C14H26O2

**SMILES:**

CCCCC=CCCCCCCOC(C)=O

**Mol. weight [g/mol]:**

226.35

**CAS:**

14959-86-5

## Physical Properties

Property code	Value	Unit	Source
gf	-86.70	kJ/mol	Joback Method
hf	-459.87	kJ/mol	Joback Method
hfus	35.00	kJ/mol	Joback Method
hvap	79.80	kJ/mol	NIST Webbook
log10ws	-4.40		Crippen Method
logp	4.246		Crippen Method
mcvol	211.260	ml/mol	McGowan Method
pc	1647.09	kPa	Joback Method
rinpol	1598.00		NIST Webbook
rinpol	1575.00		NIST Webbook
rinpol	1598.00		NIST Webbook
ripol	1973.00		NIST Webbook
ripol	1929.00		NIST Webbook
ripol	1911.00		NIST Webbook
ripol	1929.00		NIST Webbook
ripol	1968.00		NIST Webbook

ripol	1973.00		NIST Webbook
ripol	1911.00		NIST Webbook
tb	600.17	K	Joback Method
tc	774.06	K	Joback Method
tf	314.62	K	Joback Method
vc	0.824	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	636.08	J/mol×K	774.06	Joback Method
cpg	622.98	J/mol×K	745.08	Joback Method
cpg	609.24	J/mol×K	716.10	Joback Method
cpg	594.83	J/mol×K	687.12	Joback Method
cpg	579.75	J/mol×K	658.13	Joback Method
cpg	563.96	J/mol×K	629.15	Joback Method
cpg	547.45	J/mol×K	600.17	Joback Method
dvisc	0.0025872	Paxs	314.62	Joback Method
dvisc	0.0001309	Paxs	600.17	Joback Method
dvisc	0.0001737	Paxs	552.58	Joback Method
dvisc	0.0002432	Paxs	504.99	Joback Method
dvisc	0.0003653	Paxs	457.40	Joback Method
dvisc	0.0006028	Paxs	409.80	Joback Method
dvisc	0.0011349	Paxs	362.21	Joback Method
hvapt	77.50	kJ/mol	310.00	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.28805e+01
Coeff. B	-3.86144e+03
Coeff. C	-8.37640e+01
Temperature range (K), min.	390.40
Temperature range (K), max.	593.93

# 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=C14959865&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C14959865&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/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>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>ripol:</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

Latest version available from:

<https://www.chemeo.com/cid/58-546-2/cis-7-Dodecen-1-yl-acetate.pdf>

Generated by Cheméo on 2024-04-20 11:08:47.301096157 +0000 UTC m=+15900576.221673469.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.