

# trans-2-Dodecen-1-ol, acetate

<b>Inchi:</b>	InChI=1S/C14H26O2/c1-3-4-5-6-7-8-9-10-11-12-13-16-14(2)15/h11-12H,3-10,13H2,1-2H
<b>InchiKey:</b>	AMIUTTABDVIFDZ-VAWYXSNFSA-N
<b>Formula:</b>	C14H26O2
<b>SMILES:</b>	CCCCCCCCC=CCOC(C)=O
<b>Mol. weight [g/mol]:</b>	226.35

## 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	55.87	kJ/mol	Joback Method
log10ws	-4.40		Crippen Method
logp	4.246		Crippen Method
mvol	211.260	ml/mol	McGowan Method
pc	1647.09	kPa	Joback Method
rinpol	1608.50		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	547.45	J/molxK	600.17	Joback Method
cpg	563.96	J/molxK	629.15	Joback Method
cpg	579.75	J/molxK	658.13	Joback Method
cpg	594.83	J/molxK	687.12	Joback Method
cpg	609.24	J/molxK	716.10	Joback Method
cpg	622.98	J/molxK	745.08	Joback Method
cpg	636.08	J/molxK	774.06	Joback Method
dvisc	0.0025872	Paxs	314.62	Joback Method
dvisc	0.0011349	Paxs	362.21	Joback Method

dvisc	0.0006028	Paxs	409.80	Joback Method
dvisc	0.0003653	Paxs	457.40	Joback Method
dvisc	0.0002432	Paxs	504.99	Joback Method
dvisc	0.0001737	Paxs	552.58	Joback Method
dvisc	0.0001309	Paxs	600.17	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U352259&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U352259&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>

## 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>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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