

# 2,4-Dimethyl-3-pentanol acetate

<b>Other names:</b>	Acetic acid, 2,4-dimethylpent-3-yl ester
<b>Inchi:</b>	InChI=1S/C9H18O2/c1-6(2)9(7(3)4)11-8(5)10/h6-7,9H,1-5H3
<b>InchiKey:</b>	OXCWHEWLKNJJET-UHFFFAOYSA-N
<b>Formula:</b>	C9H18O2
<b>SMILES:</b>	CC(=O)OC(C(C)C)C(C)C
<b>Mol. weight [g/mol]:</b>	158.24
<b>CAS:</b>	84612-74-8

## Physical Properties

Property code	Value	Unit	Source
gf	-216.34	kJ/mol	Joback Method
hf	-489.73	kJ/mol	Joback Method
hfus	11.28	kJ/mol	Joback Method
hvap	43.62	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	2.230		Crippen Method
mcvol	145.110	ml/mol	McGowan Method
pc	2470.27	kPa	Joback Method
rinpol	1032.00		NIST Webbook
rinpol	1032.00		NIST Webbook
tb	480.29	K	Joback Method
tc	665.27	K	Joback Method
tf	218.35	K	Joback Method
vc	0.545	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.38	J/molxK	480.29	Joback Method
cpg	337.72	J/molxK	511.12	Joback Method
cpg	351.50	J/molxK	541.95	Joback Method
cpg	364.71	J/molxK	572.78	Joback Method
cpg	377.36	J/molxK	603.61	Joback Method
cpg	389.47	J/molxK	634.44	Joback Method

cpg	401.02	J/mol×K	665.27	Joback Method
dvisc	0.0122928	Paxs	218.35	Joback Method
dvisc	0.0035177	Paxs	262.01	Joback Method
dvisc	0.0014391	Paxs	305.66	Joback Method
dvisc	0.0007361	Paxs	349.32	Joback Method
dvisc	0.0004370	Paxs	392.98	Joback Method
dvisc	0.0002879	Paxs	436.63	Joback Method
dvisc	0.0002047	Paxs	480.29	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=C84612748&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C84612748&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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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