

# ethyl 4-acetoxypentanoate

<b>Inchi:</b>	InChI=1S/C9H16O4/c1-4-12-9(11)6-5-7(2)13-8(3)10/h7H,4-6H2,1-3H3
<b>InchiKey:</b>	QFNQLSZZQKALRW-UHFFFAOYSA-N
<b>Formula:</b>	C9H16O4
<b>SMILES:</b>	CCOC(=O)CCC(C)OC(C)=O
<b>Mol. weight [g/mol]:</b>	188.22

## Physical Properties

Property code	Value	Unit	Source
gf	-445.38	kJ/mol	Joback Method
hf	-723.97	kJ/mol	Joback Method
hfus	21.12	kJ/mol	Joback Method
hvap	53.55	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	1.281		Crippen Method
mcvol	152.550	ml/mol	McGowan Method
pc	2545.61	kPa	Joback Method
ripol	1692.00		NIST Webbook
ripol	1692.00		NIST Webbook
tb	557.46	K	Joback Method
tc	742.78	K	Joback Method
tf	320.51	K	Joback Method
vc	0.582	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	368.40	J/molxK	557.46	Joback Method
cpg	426.64	J/molxK	711.90	Joback Method
cpg	416.03	J/molxK	681.01	Joback Method
cpg	404.90	J/molxK	650.12	Joback Method
cpg	393.25	J/molxK	619.23	Joback Method
cpg	381.08	J/molxK	588.35	Joback Method
cpg	436.72	J/molxK	742.78	Joback Method
dvisc	0.0001960	Paxs	557.46	Joback Method

dvisc	0.0002553	Paxs	517.97	Joback Method
dvisc	0.0003474	Paxs	478.48	Joback Method
dvisc	0.0004996	Paxs	438.99	Joback Method
dvisc	0.0007719	Paxs	399.49	Joback Method
dvisc	0.0013123	Paxs	360.00	Joback Method
dvisc	0.0025423	Paxs	320.51	Joback Method

## Sources

<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>
<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=R319563&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R319563&amp;Units=SI</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>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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