

# 4-Acetoxyacinnamic acid

<b>Other names:</b>	p-Acetoxyacinnamic acid 2-Propenoic acid, 3-[4-(acetyloxy)phenyl]- Cinnamic acid, p-hydroxy-, acetate
<b>Inchi:</b>	InChI=1S/C11H10O4/c1-8(12)15-10-5-2-9(3-6-10)4-7-11(13)14/h2-7H,1H3,(H,13,14)/b7-
<b>InchiKey:</b>	BYHBHNKBISXCEP-QPJJXVBHSA-N
<b>Formula:</b>	C11H10O4
<b>SMILES:</b>	CC(=O)Oc1ccc(C=CC(=O)O)cc1
<b>Mol. weight [g/mol]:</b>	206.19
<b>CAS:</b>	15486-19-8

## Physical Properties

Property code	Value	Unit	Source
chs	-5076.31	kJ/mol	NIST Webbook
gf	-274.92	kJ/mol	Joback Method
hf	-437.70	kJ/mol	Joback Method
hfus	26.57	kJ/mol	Joback Method
hvap	75.56	kJ/mol	Joback Method
log10ws	-2.13		Crippen Method
logp	1.710		Crippen Method
mcvol	152.670	ml/mol	McGowan Method
pc	3439.94	kPa	Joback Method
tb	709.24	K	Joback Method
tc	920.04	K	Joback Method
tf	430.50	K	Joback Method
vc	0.573	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	387.59	J/mol×K	709.24	Joback Method
cpg	397.35	J/mol×K	744.37	Joback Method
cpg	406.43	J/mol×K	779.51	Joback Method
cpg	414.87	J/mol×K	814.64	Joback Method
cpg	422.70	J/mol×K	849.77	Joback Method

cpg	429.94	J/molxK	884.90	Joback Method
cpg	436.63	J/molxK	920.04	Joback Method
dvisc	0.0011697	Paxs	430.50	Joback Method
dvisc	0.0005135	Paxs	476.96	Joback Method
dvisc	0.0002609	Paxs	523.41	Joback Method
dvisc	0.0001480	Paxs	569.87	Joback Method
dvisc	0.0000915	Paxs	616.33	Joback Method
dvisc	0.0000605	Paxs	662.78	Joback Method
dvisc	0.0000422	Paxs	709.24	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.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>
<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=C15486198&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15486198&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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