

# Acetoxyacetic acid, (4-chlorophenyl)methyl ester

Inchi:	InChI=1S/C11H11ClO4/c1-8(13)15-7-11(14)16-6-9-2-4-10(12)5-3-9/h2-5H,6-7H2,1H3
InchiKey:	IUAPHMNPPYPAAC-UHFFFAOYSA-N
Formula:	C11H11ClO4
SMILES:	CC(=O)OCC(=O)OCc1ccc(Cl)cc1
Mol. weight [g/mol]:	242.66

## Physical Properties

Property code	Value	Unit	Source
gf	-335.25	kJ/mol	Joback Method
hf	-550.65	kJ/mol	Joback Method
hfus	27.67	kJ/mol	Joback Method
hvap	65.72	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	1.946		Crippen Method
mcvol	169.210	ml/mol	McGowan Method
pc	2761.36	kPa	Joback Method
rinsol	1663.00		NIST Webbook
tb	672.75	K	Joback Method
tc	891.35	K	Joback Method
tf	426.91	K	Joback Method
vc	0.640	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	411.07	J/molxK	672.75	Joback Method
cpg	462.02	J/molxK	854.92	Joback Method
cpg	453.40	J/molxK	818.48	Joback Method
cpg	444.00	J/molxK	782.05	Joback Method
cpg	433.81	J/molxK	745.62	Joback Method
cpg	422.83	J/molxK	709.18	Joback Method
cpg	469.86	J/molxK	891.35	Joback Method
dvisc	0.0001548	Paxs	672.75	Joback Method
dvisc	0.0001921	Paxs	631.78	Joback Method

dvisc	0.0002455	Paxs	590.80	Joback Method
dvisc	0.0003255	Paxs	549.83	Joback Method
dvisc	0.0004516	Paxs	508.86	Joback Method
dvisc	0.0006636	Paxs	467.88	Joback Method
dvisc	0.0010498	Paxs	426.91	Joback Method

## Sources

<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=U308343&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308343&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>

## 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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