

# Acetic acid, (4-chloro-2-methylphenoxy)-, ethyl ester

<b>Other names:</b>	Acetic acid, ((4-chloro-o-tolyl)oxy)-, ethyl ester Ethyl 2-methyl-4-chlorophenoxyacetate Mcpa ethyl ester Mcppe MCPA-ethyl 4-Chloro-2-methylphenoxyacetic acid ethyl ester 2M-4C, ethyl ester ethyl 4-chloro-o-tolyloxyacetate
<b>Inchi:</b>	InChI=1S/C11H13ClO3/c1-3-14-11(13)7-15-10-5-4-9(12)6-8(10)2/h4-6H,3,7H2,1-2H3
<b>InchiKey:</b>	OUYDEKFRLSFDMU-UHFFFAOYSA-N
<b>Formula:</b>	C11H13ClO3
<b>SMILES:</b>	CCOC(=O)COc1ccc(Cl)cc1C
<b>Mol. weight [g/mol]:</b>	228.67
<b>CAS:</b>	2698-38-6

## Physical Properties

Property code	Value	Unit	Source
gf	-215.96	kJ/mol	Joback Method
hf	-449.54	kJ/mol	Joback Method
hfus	25.68	kJ/mol	Joback Method
hvap	59.63	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	2.590		Crippen Method
mcvol	167.640	ml/mol	McGowan Method
pc	2548.19	kPa	Joback Method
rinpol	1628.00		NIST Webbook
rinpol	1628.00		NIST Webbook
rinpol	1628.00		NIST Webbook
rinpol	1635.00		NIST Webbook
tb	623.86	K	Joback Method
tc	836.76	K	Joback Method
tf	389.50	K	Joback Method
vc	0.634	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.31	J/molxK	623.86	Joback Method
cpg	409.19	J/molxK	659.34	Joback Method
cpg	421.37	J/molxK	694.83	Joback Method
cpg	432.85	J/molxK	730.31	Joback Method
cpg	443.61	J/molxK	765.79	Joback Method
cpg	453.65	J/molxK	801.27	Joback Method
cpg	462.98	J/molxK	836.76	Joback Method
dvisc	0.0009740	Paxs	389.50	Joback Method
dvisc	0.0006188	Paxs	428.56	Joback Method
dvisc	0.0004241	Paxs	467.62	Joback Method
dvisc	0.0003081	Paxs	506.68	Joback Method
dvisc	0.0002343	Paxs	545.74	Joback Method
dvisc	0.0001848	Paxs	584.80	Joback Method
dvisc	0.0001501	Paxs	623.86	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=C2698386&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2698386&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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