

# 4-CHLOROPHENOXYACETIC ACID, METHYL, ESTER

<b>Other names:</b>	Acetic acid, 4-chlorophenoxy, methyl ester
<b>Inchi:</b>	InChI=1S/C9H9ClO3/c1-12-9(11)6-13-8-4-2-7(10)3-5-8/h2-5H,6H2,1H3
<b>InchiKey:</b>	OSGZHKEYFZSNKRI-UHFFFAOYSA-N
<b>Formula:</b>	C9H9ClO3
<b>SMILES:</b>	<chem>COC(=O)COc1ccc(Cl)cc1</chem>
<b>Mol. weight [g/mol]:</b>	200.62

## Physical Properties

Property code	Value	Unit	Source
gf	-223.17	kJ/mol	Joback Method
hf	-396.79	kJ/mol	Joback Method
hfus	20.89	kJ/mol	Joback Method
hvap	54.52	kJ/mol	Joback Method
log10ws	-1.98		Crippen Method
logp	1.892		Crippen Method
mvol	139.460	ml/mol	McGowan Method
pc	3177.55	kPa	Joback Method
tb	573.12	K	Joback Method
tc	792.51	K	Joback Method
tf	354.44	K	Joback Method
vc	0.522	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.31	J/mol×K	573.12	Joback Method
cpg	314.68	J/mol×K	609.69	Joback Method
cpg	325.43	J/mol×K	646.25	Joback Method
cpg	335.55	J/mol×K	682.82	Joback Method
cpg	345.03	J/mol×K	719.38	Joback Method
cpg	353.88	J/mol×K	755.95	Joback Method
cpg	362.09	J/mol×K	792.51	Joback Method
dvisc	0.0012872	Paxs	354.44	Joback Method
dvisc	0.0008013	Paxs	390.89	Joback Method

dvisc	0.0005409	Paxs	427.33	Joback Method
dvisc	0.0003883	Paxs	463.78	Joback Method
dvisc	0.0002926	Paxs	500.23	Joback Method
dvisc	0.0002291	Paxs	536.67	Joback Method
dvisc	0.0001851	Paxs	573.12	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U362945&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U362945&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>
<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>

## 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>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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