

# Carbonic acid, ethyl 4-chlorophenyl ester

<b>Inchi:</b>	InChI=1S/C9H9ClO3/c1-2-12-9(11)13-8-5-3-7(10)4-6-8/h3-6H,2H2,1H3
<b>InchiKey:</b>	YVZRS AKDPDOUPK-UHFFFAOYSA-N
<b>Formula:</b>	C9H9ClO3
<b>SMILES:</b>	CCOC(=O)Oc1ccc(Cl)cc1
<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	-2.95		Crippen Method
logp	2.875		Crippen Method
mcvol	139.460	ml/mol	McGowan Method
pc	3177.55	kPa	Joback Method
rinpol	1414.00		NIST Webbook
tb	573.12	K	Joback Method
tc	792.51	K	Joback Method
tf	354.44	K	Joback Method
vc	0.522	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.31	J/molxK	573.12	Joback Method
cpg	314.68	J/molxK	609.69	Joback Method
cpg	325.43	J/molxK	646.25	Joback Method
cpg	335.55	J/molxK	682.82	Joback Method
cpg	345.03	J/molxK	719.38	Joback Method
cpg	353.88	J/molxK	755.95	Joback Method
cpg	362.09	J/molxK	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>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=U357917&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357917&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>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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