

# Cyclopentanecarboxylic acid, 3-(chloroformyl)-, methyl ester, cis-

Inchi:	InChI=1S/C8H11ClO3/c1-12-8(11)6-3-2-5(4-6)7(9)10/h5-6H,2-4H2,1H3
InchiKey:	TYWZGOWRMWCWFP-UHFFFAOYSA-N
Formula:	C8H11ClO3
SMILES:	<chem>COC(=O)C1CCC(C(=O)Cl)C1</chem>
Mol. weight [g/mol]:	190.62
CAS:	116940-83-1

## Physical Properties

Property code	Value	Unit	Source
gf	-329.45	kJ/mol	Joback Method
hf	-541.43	kJ/mol	Joback Method
hfus	20.07	kJ/mol	Joback Method
hvap	53.64	kJ/mol	Joback Method
log10ws	-1.37		Crippen Method
logp	1.341		Crippen Method
mcvol	133.970	ml/mol	McGowan Method
pc	3202.78	kPa	Joback Method
tb	560.64	K	Joback Method
tc	778.37	K	Joback Method
tf	338.59	K	Joback Method
vc	0.502	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	312.20	J/mol×K	560.64	Joback Method
cpg	325.87	J/mol×K	596.93	Joback Method
cpg	338.76	J/mol×K	633.22	Joback Method
cpg	350.87	J/mol×K	669.51	Joback Method
cpg	362.20	J/mol×K	705.80	Joback Method
cpg	372.78	J/mol×K	742.08	Joback Method
cpg	382.61	J/mol×K	778.37	Joback Method
dvisc	0.0024912	Paxs	338.59	Joback Method
dvisc	0.0016041	Paxs	375.60	Joback Method

dvisc	0.0011178	Paxs	412.61	Joback Method
dvisc	0.0008266	Paxs	449.62	Joback Method
dvisc	0.0006400	Paxs	486.62	Joback Method
dvisc	0.0005137	Paxs	523.63	Joback Method
dvisc	0.0004245	Paxs	560.64	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C116940831&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116940831&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>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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