

# 2-Chloropropionic acid, 3,4-dichlorophenyl ester

Inchi:	InChI=1S/C9H7Cl3O2/c1-5(10)9(13)14-6-2-3-7(11)8(12)4-6/h2-5H,1H3
InchiKey:	YFMJDVKPXPSLOQ-UHFFFAOYSA-N
Formula:	C9H7Cl3O2
SMILES:	CC(Cl)C(=O)Oc1ccc(Cl)c(Cl)c1
Mol. weight [g/mol]:	253.51

## Physical Properties

Property code	Value	Unit	Source
gf	-154.10	kJ/mol	Joback Method
hf	-312.80	kJ/mol	Joback Method
hfus	24.18	kJ/mol	Joback Method
hvap	61.15	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	3.526		Crippen Method
mcvol	158.070	ml/mol	McGowan Method
pc	2960.12	kPa	Joback Method
rinpol	1610.00		NIST Webbook
rinpol	1610.00		NIST Webbook
tb	630.10	K	Joback Method
tc	865.66	K	Joback Method
tf	389.57	K	Joback Method
vc	0.597	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.21	J/molxK	630.10	Joback Method
cpg	335.13	J/molxK	669.36	Joback Method
cpg	344.34	J/molxK	708.62	Joback Method
cpg	352.87	J/molxK	747.88	Joback Method
cpg	360.71	J/molxK	787.14	Joback Method
cpg	367.88	J/molxK	826.40	Joback Method
cpg	374.40	J/molxK	865.66	Joback Method
dvisc	0.0013740	Paxs	389.57	Joback Method

dvisc	0.0008493	Paxs	429.66	Joback Method
dvisc	0.0005698	Paxs	469.75	Joback Method
dvisc	0.0004071	Paxs	509.84	Joback Method
dvisc	0.0003055	Paxs	549.92	Joback Method
dvisc	0.0002383	Paxs	590.01	Joback Method
dvisc	0.0001919	Paxs	630.10	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=U307755&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307755&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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

Latest version available from:

<https://www.chemeo.com/cid/62-518-8/2-Chloropropionic-acid-3-4-dichlorophenyl-ester.pdf>

Generated by Cheméo on 2024-04-30 10:40:35.761099684 +0000 UTC m=+16762884.681677000.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.