

# Methyl 3,3-dichloropropenoate

<b>Other names:</b>	3,3-Dichloropropenoic acid, methyl ester
<b>Inchi:</b>	InChI=1S/C4H4Cl2O2/c1-8-4(7)2-3(5)6/h2H,1H3
<b>InchiKey:</b>	YPCKXQGCSGMTIR-UHFFFAOYSA-N
<b>Formula:</b>	C4H4Cl2O2
<b>SMILES:</b>	COC(=O)C=C(Cl)Cl
<b>Mol. weight [g/mol]:</b>	154.98
<b>CAS:</b>	2257-46-7

## Physical Properties

Property code	Value	Unit	Source
gf	-203.31	kJ/mol	Joback Method
hf	-294.74	kJ/mol	Joback Method
hfus	16.19	kJ/mol	Joback Method
hvap	42.46	kJ/mol	Joback Method
log10ws	-1.51		Crippen Method
logp	1.478		Crippen Method
mcvol	94.840	ml/mol	McGowan Method
pc	4041.50	kPa	Joback Method
rinpol	916.00		NIST Webbook
rinpol	916.00		NIST Webbook
rinpol	906.00		NIST Webbook
rinpol	916.00		NIST Webbook
ripol	1365.00		NIST Webbook
ripol	1382.00		NIST Webbook
ripol	1382.00		NIST Webbook
tb	446.11	K	Joback Method
tc	654.71	K	Joback Method
tf	247.80	K	Joback Method
vc	0.362	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	155.02	J/molxK	446.11	Joback Method

cpg	161.10	J/mol×K	480.88	Joback Method
cpg	166.85	J/mol×K	515.64	Joback Method
cpg	172.29	J/mol×K	550.41	Joback Method
cpg	177.42	J/mol×K	585.18	Joback Method
cpg	182.26	J/mol×K	619.95	Joback Method
cpg	186.82	J/mol×K	654.71	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=C2257467&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2257467&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	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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