

# Methyl 2,3-dichloro-4-oxopentenoate

<b>Inchi:</b>	InChI=1S/C6H8Cl2O3/c1-3(9)4(7)5(8)6(10)11-2/h4-5H,1-2H3
<b>InchiKey:</b>	GOJJJWQYCJZBOM-UHFFFAOYSA-N
<b>Formula:</b>	C6H8Cl2O3
<b>SMILES:</b>	COC(=O)C(Cl)C(Cl)C(C)=O
<b>Mol. weight [g/mol]:</b>	199.03

## Physical Properties

Property code	Value	Unit	Source
gf	-391.94	kJ/mol	Joback Method
hf	-566.59	kJ/mol	Joback Method
hfus	17.03	kJ/mol	Joback Method
hvap	52.85	kJ/mol	Joback Method
log10ws	-1.01		Crippen Method
logp	0.963		Crippen Method
mcvol	128.890	ml/mol	McGowan Method
pc	3291.59	kPa	Joback Method
rinsol	1158.00		NIST Webbook
tb	540.82	K	Joback Method
tc	748.93	K	Joback Method
tf	309.31	K	Joback Method
vc	0.487	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.46	J/molxK	540.82	Joback Method
cpg	301.77	J/molxK	714.24	Joback Method
cpg	294.63	J/molxK	679.56	Joback Method
cpg	287.04	J/molxK	644.87	Joback Method
cpg	278.98	J/molxK	610.19	Joback Method
cpg	270.45	J/molxK	575.50	Joback Method
cpg	308.44	J/molxK	748.93	Joback Method
dvisc	0.0002864	Paxs	540.82	Joback Method
dvisc	0.0003755	Paxs	502.23	Joback Method

dvisc	0.0005152	Paxs	463.65	Joback Method
dvisc	0.0007485	Paxs	425.06	Joback Method
dvisc	0.0011717	Paxs	386.48	Joback Method
dvisc	0.0020260	Paxs	347.89	Joback Method
dvisc	0.0040160	Paxs	309.31	Joback Method

## Sources

<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=R80376&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R80376&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

## 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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