

# Dimethyl chlorobutenedioate

<b>Inchi:</b>	InChI=1S/C6H7ClO4/c1-10-5(8)3-4(7)6(9)11-2/h3H,1-2H3/b4-3-
<b>InchiKey:</b>	VYXGXXYXSAMWBM-ARJAWSKDSA-N
<b>Formula:</b>	C6H7ClO4
<b>SMILES:</b>	COC(=O)C=C(Cl)C(=O)OC
<b>Mol. weight [g/mol]:</b>	178.57

## Physical Properties

Property code	Value	Unit	Source
gf	-408.46	kJ/mol	Joback Method
hf	-565.08	kJ/mol	Joback Method
hfus	19.96	kJ/mol	Joback Method
hvap	51.69	kJ/mol	Joback Method
log10ws	-0.56		Crippen Method
logp	0.455		Crippen Method
mcvol	118.220	ml/mol	McGowan Method
pc	3534.66	kPa	Joback Method
rinpol	1068.00		NIST Webbook
rinpol	1094.00		NIST Webbook
tb	530.73	K	Joback Method
tc	736.15	K	Joback Method
tf	312.58	K	Joback Method
vc	0.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.54	J/mol×K	530.73	Joback Method
cpg	248.95	J/mol×K	564.97	Joback Method
cpg	256.98	J/mol×K	599.20	Joback Method
cpg	264.61	J/mol×K	633.44	Joback Method
cpg	271.86	J/mol×K	667.68	Joback Method
cpg	278.70	J/mol×K	701.91	Joback Method
cpg	285.16	J/mol×K	736.15	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=R80166&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R80166&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>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>h vap:</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>r in pol:</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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