

# Dimethyl dichloromalonate

<b>Inchi:</b>	InChI=1S/C5H6Cl2O4/c1-10-3(8)5(6,7)4(9)11-2/h1-2H3
<b>InchiKey:</b>	IELVZWLJMUPAEK-UHFFFAOYSA-N
<b>Formula:</b>	C5H6Cl2O4
<b>SMILES:</b>	COC(=O)C(Cl)(Cl)C(=O)OC
<b>Mol. weight [g/mol]:</b>	201.00

## Physical Properties

Property code	Value	Unit	Source
gf	-497.64	kJ/mol	Joback Method
hf	-676.36	kJ/mol	Joback Method
hfus	15.26	kJ/mol	Joback Method
hvap	52.51	kJ/mol	Joback Method
log10ws	-0.55		Crippen Method
logp	0.506		Crippen Method
mcvol	120.670	ml/mol	McGowan Method
pc	3624.61	kPa	Joback Method
rinpol	1100.00		NIST Webbook
tb	538.01	K	Joback Method
tc	751.08	K	Joback Method
tf	352.69	K	Joback Method
vc	0.451	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	243.20	J/molxK	538.01	Joback Method
cpg	277.97	J/molxK	715.57	Joback Method
cpg	271.93	J/molxK	680.06	Joback Method
cpg	265.44	J/molxK	644.54	Joback Method
cpg	258.48	J/molxK	609.03	Joback Method
cpg	251.07	J/molxK	573.52	Joback Method
cpg	283.56	J/molxK	751.08	Joback Method
dvisc	0.0002680	Paxs	538.01	Joback Method
dvisc	0.0003399	Paxs	507.12	Joback Method

dvisc	0.0004447	Paxs	476.24	Joback Method
dvisc	0.0006039	Paxs	445.35	Joback Method
dvisc	0.0008583	Paxs	414.46	Joback Method
dvisc	0.0012910	Paxs	383.58	Joback Method
dvisc	0.0020857	Paxs	352.69	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=R80312&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R80312&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>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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