

# Methyl 2,4-dichlorobutanoate

<b>Other names:</b>	2,4-Dichlorobutanoic acid, methyl ester
<b>Inchi:</b>	InChI=1S/C5H8Cl2O2/c1-9-5(8)4(7)2-3-6/h4H,2-3H2,1H3
<b>InchiKey:</b>	MIXXUSQBRXDJHD-UHFFFAOYSA-N
<b>Formula:</b>	C5H8Cl2O2
<b>SMILES:</b>	COC(=O)C(Cl)CCCl
<b>Mol. weight [g/mol]:</b>	171.02
<b>CAS:</b>	62093-65-6

## Physical Properties

Property code	Value	Unit	Source
gf	-269.00	kJ/mol	Joback Method
hf	-428.09	kJ/mol	Joback Method
hfus	16.36	kJ/mol	Joback Method
hvap	44.26	kJ/mol	Joback Method
log10ws	-1.20		Crippen Method
logp	1.396		Crippen Method
mcvol	113.230	ml/mol	McGowan Method
pc	3388.08	kPa	Joback Method
rinpol	1056.00		NIST Webbook
rinpol	1047.00		NIST Webbook
rinpol	1057.00		NIST Webbook
tb	464.51	K	Joback Method
tc	661.42	K	Joback Method
tf	263.11	K	Joback Method
vc	0.431	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	209.55	J/molxK	464.51	Joback Method
cpg	217.82	J/molxK	497.33	Joback Method
cpg	225.76	J/molxK	530.15	Joback Method
cpg	233.34	J/molxK	562.97	Joback Method
cpg	240.59	J/molxK	595.78	Joback Method

cpg	247.49	J/molxK	628.60	Joback Method
cpg	254.06	J/molxK	661.42	Joback Method
dvisc	0.0039296	Paxs	263.11	Joback Method
dvisc	0.0020352	Paxs	296.68	Joback Method
dvisc	0.0012050	Paxs	330.24	Joback Method
dvisc	0.0007858	Paxs	363.81	Joback Method
dvisc	0.0005509	Paxs	397.38	Joback Method
dvisc	0.0004081	Paxs	430.94	Joback Method
dvisc	0.0003158	Paxs	464.51	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=C62093656&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C62093656&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

Latest version available from:

<https://www.chemeo.com/cid/67-233-9/Methyl-2-4-dichlorobutanoate.pdf>

Generated by Cheméo on 2024-04-19 00:12:31.017988726 +0000 UTC m=+15774799.938566042.

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