

# Dimethyl 2,3-dichlorobutenedioate

**Inchi:** InChI=1S/C6H6Cl2O4/c1-11-5(9)3(7)4(8)6(10)12-2/h1-2H3/b4-3+  
**InchiKey:** YGDFORZEKOJPAN-ONEGZZNKSA-N  
**Formula:** C6H6Cl2O4  
**SMILES:** COC(=O)C(Cl)=C(Cl)C(=O)OC  
**Mol. weight [g/mol]:** 213.01

## Physical Properties

Property code	Value	Unit	Source
gf	-428.94	kJ/mol	Joback Method
hf	-590.61	kJ/mol	Joback Method
hfus	22.85	kJ/mol	Joback Method
hvap	56.15	kJ/mol	Joback Method
log10ws	-1.21		Crippen Method
logp	1.022		Crippen Method
mcvol	130.460	ml/mol	McGowan Method
pc	3403.91	kPa	Joback Method
rinpol	1216.00		NIST Webbook
rinpol	1222.00		NIST Webbook
rinpol	1216.00		NIST Webbook
tb	568.04	K	Joback Method
tc	781.75	K	Joback Method
tf	328.54	K	Joback Method
vc	0.499	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.35	J/molxK	568.04	Joback Method
cpg	269.34	J/molxK	603.66	Joback Method
cpg	276.90	J/molxK	639.28	Joback Method
cpg	284.03	J/molxK	674.89	Joback Method
cpg	290.74	J/molxK	710.51	Joback Method
cpg	297.01	J/molxK	746.13	Joback Method
cpg	302.86	J/molxK	781.75	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=R80148&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R80148&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>hvp:</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>rinp:</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/13-085-3/Dimethyl-2-3-dichlorobutenedioate.pdf>

Generated by Cheméo on 2024-05-02 01:14:19.500265488 +0000 UTC m=+16901708.420842810.

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