

# Dimethyl 2,3-dimethoxybutenedioate

<b>Inchi:</b>	InChI=1S/C8H12O6/c1-11-5(7(9)13-3)6(12-2)8(10)14-4/h1-4H3/b6-5+
<b>InchiKey:</b>	INFWEJMOAFPDCCK-AATRIKPKSA-N
<b>Formula:</b>	C8H12O6
<b>SMILES:</b>	COC(=O)C(OC)=C(OC)C(=O)OC
<b>Mol. weight [g/mol]:</b>	204.18

## Physical Properties

Property code	Value	Unit	Source
gf	-598.24	kJ/mol	Joback Method
hf	-864.85	kJ/mol	Joback Method
hfus	22.01	kJ/mol	Joback Method
hvap	56.65	kJ/mol	Joback Method
log10ws	0.09		Crippen Method
logp	-0.163		Crippen Method
mcvol	145.900	ml/mol	McGowan Method
pc	2871.95	kPa	Joback Method
rinpol	1413.00		NIST Webbook
tb	583.78	K	Joback Method
tc	778.93	K	Joback Method
tf	335.70	K	Joback Method
vc	0.549	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.38	J/mol×K	583.78	Joback Method
cpg	360.51	J/mol×K	616.30	Joback Method
cpg	371.20	J/mol×K	648.83	Joback Method
cpg	381.44	J/mol×K	681.35	Joback Method
cpg	391.19	J/mol×K	713.88	Joback Method
cpg	400.44	J/mol×K	746.40	Joback Method
cpg	409.17	J/mol×K	778.93	Joback Method

# Sources

<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>
<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=R80237&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R80237&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>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>m cvol:</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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