

# Dimethyl malate

<b>Inchi:</b>	InChI=1S/C6H10O5/c1-10-5(8)3-4(7)6(9)11-2/h4,7H,3H2,1-2H3
<b>InchiKey:</b>	YSEKNCXYRGKTBK-UHFFFAOYSA-N
<b>Formula:</b>	C6H10O5
<b>SMILES:</b>	COC(=O)CC(O)C(=O)OC
<b>Mol. weight [g/mol]:</b>	162.14

## Physical Properties

Property code	Value	Unit	Source
gf	-607.46	kJ/mol	Joback Method
hf	-814.28	kJ/mol	Joback Method
hfus	17.44	kJ/mol	Joback Method
hvap	63.55	kJ/mol	Joback Method
log10ws	0.57		Crippen Method
logp	-0.917		Crippen Method
mcvol	116.150	ml/mol	McGowan Method
pc	3896.50	kPa	Joback Method
tb	581.00	K	Joback Method
tc	763.03	K	Joback Method
tf	347.52	K	Joback Method
vc	0.432	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	280.03	J/mol×K	581.00	Joback Method
cpg	318.69	J/mol×K	732.69	Joback Method
cpg	311.67	J/mol×K	702.35	Joback Method
cpg	304.29	J/mol×K	672.01	Joback Method
cpg	296.55	J/mol×K	641.68	Joback Method
cpg	288.46	J/mol×K	611.34	Joback Method
cpg	325.33	J/mol×K	763.03	Joback Method
dvisc	0.0000920	Paxs	581.00	Joback Method
dvisc	0.0001396	Paxs	542.09	Joback Method
dvisc	0.0002257	Paxs	503.17	Joback Method

dvisc	0.0003956	Paxs	464.26	Joback Method
dvisc	0.0007685	Paxs	425.35	Joback Method
dvisc	0.0017064	Paxs	386.43	Joback Method
dvisc	0.0045299	Paxs	347.52	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=B6006609&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6006609&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>hvac:</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>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/92-205-2/Dimethyl-malate.pdf>

Generated by Cheméo on 2024-04-25 22:04:20.777196014 +0000 UTC m=+16371909.697773329.

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