

# di-(1-Methyl-2-methoxybutyl)oxalate

<b>Inchi:</b>	InChI=1S/C12H22O6/c1-7(15-5)9(3)17-11(13)12(14)18-10(4)8(2)16-6/h7-10H,1-6H3
<b>InchiKey:</b>	WOHVUTCPBIZWDN-UHFFFAOYSA-N
<b>Formula:</b>	C12H22O6
<b>SMILES:</b>	COC(C)C(C)OC(=O)C(=O)OC(C)C(C)OC
<b>Mol. weight [g/mol]:</b>	262.30

## Physical Properties

Property code	Value	Unit	Source
gf	-637.44	kJ/mol	Joback Method
hf	-1066.17	kJ/mol	Joback Method
hfus	20.69	kJ/mol	Joback Method
hvap	63.89	kJ/mol	Joback Method
log10ws	-1.19		Crippen Method
logp	0.920		Crippen Method
mcvol	206.560	ml/mol	McGowan Method
pc	1923.67	kPa	Joback Method
rinpol	1375.00		NIST Webbook
rinpol	1375.00		NIST Webbook
tb	669.62	K	Joback Method
tc	857.34	K	Joback Method
tf	353.78	K	Joback Method
vc	0.767	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	572.73	J/molxK	669.62	Joback Method
cpg	641.17	J/molxK	826.05	Joback Method
cpg	629.08	J/molxK	794.76	Joback Method
cpg	616.17	J/molxK	763.48	Joback Method
cpg	602.46	J/molxK	732.19	Joback Method
cpg	587.97	J/molxK	700.91	Joback Method
cpg	652.43	J/molxK	857.34	Joback Method
dvisc	0.0000677	Paxs	669.62	Joback Method

dvisc	0.0000939	Paxs	616.98	Joback Method
dvisc	0.0001385	Paxs	564.34	Joback Method
dvisc	0.0002214	Paxs	511.70	Joback Method
dvisc	0.0003941	Paxs	459.06	Joback Method
dvisc	0.0008143	Paxs	406.42	Joback Method
dvisc	0.0020884	Paxs	353.78	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R541854&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R541854&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

## 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/66-180-9/di-1-Methyl-2-methoxybutyl-oxalate.pdf>

Generated by Cheméo on 2024-04-17 01:49:23.083017909 +0000 UTC m=+15607812.003595246.

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