

# Succinic acid, dimethyl ester, 2-isopropylidene-3-(dimethoxymethylene)

Inchi:	InChI=1S/C12H18O6/c1-7(2)8(10(13)15-3)9(11(14)16-4)12(17-5)18-6/h1-6H3
InchiKey:	LKZWFRXXTRISRI-UHFFFAOYSA-N
Formula:	C12H18O6
SMILES:	<chem>COC(=O)C(=C(C)C)C(C(=O)OC)=C(OC)OC</chem>
Mol. weight [g/mol]:	258.27
CAS:	6414-72-8

## Physical Properties

Property code	Value	Unit	Source
gf	-501.44	kJ/mol	Joback Method
hf	-849.77	kJ/mol	Joback Method
hfus	29.95	kJ/mol	Joback Method
hvap	65.67	kJ/mol	Joback Method
log10ws	-1.44		Crippen Method
logp	1.173		Crippen Method
mcvol	197.960	ml/mol	McGowan Method
pc	2088.84	kPa	Joback Method
tb	679.22	K	Joback Method
tc	878.02	K	Joback Method
tf	347.78	K	Joback Method
vc	0.755	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.89	J/molxK	679.22	Joback Method
cpg	538.73	J/molxK	712.35	Joback Method
cpg	551.85	J/molxK	745.49	Joback Method
cpg	564.24	J/molxK	778.62	Joback Method
cpg	575.90	J/molxK	811.75	Joback Method
cpg	586.82	J/molxK	844.88	Joback Method
cpg	597.01	J/molxK	878.02	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6414728&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6414728&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>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>mccvol:</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

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