

# Succinic acid, 2,2-dichloroethyl 3,3-dimethylbut-2-yl ester

Inchi:	InChI=1S/C12H20Cl2O4/c1-8(12(2,3)4)18-11(16)6-5-10(15)17-7-9(13)14/h8-9H,5-7H2,1
InchiKey:	WABCDOCCPLWXER-UHFFFAOYSA-N
Formula:	C12H20Cl2O4
SMILES:	CC(OC(=O)CCC(=O)OCC(Cl)Cl)C(C)(C)C
Mol. weight [g/mol]:	299.19

## Physical Properties

Property code	Value	Unit	Source
gf	-443.58	kJ/mol	Joback Method
hf	-831.40	kJ/mol	Joback Method
hfus	26.34	kJ/mol	Joback Method
hvap	67.32	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	3.091		Crippen Method
mvol	219.300	ml/mol	McGowan Method
pc	1862.72	kPa	Joback Method
rinpol	1747.00		NIST Webbook
rinpol	1747.00		NIST Webbook
tb	697.29	K	Joback Method
tc	897.31	K	Joback Method
tf	401.58	K	Joback Method
vc	0.831	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	576.79	J/molxK	697.29	Joback Method
cpg	637.47	J/molxK	863.98	Joback Method
cpg	626.96	J/molxK	830.64	Joback Method
cpg	615.66	J/molxK	797.30	Joback Method
cpg	603.55	J/molxK	763.96	Joback Method
cpg	590.59	J/molxK	730.63	Joback Method
cpg	647.20	J/molxK	897.31	Joback Method
dvisc	0.0000891	Paxs	697.29	Joback Method

dvisc	0.0001214	Paxs	648.00	Joback Method
dvisc	0.0001740	Paxs	598.72	Joback Method
dvisc	0.0002661	Paxs	549.43	Joback Method
dvisc	0.0004425	Paxs	500.15	Joback Method
dvisc	0.0008223	Paxs	450.87	Joback Method
dvisc	0.0017795	Paxs	401.58	Joback Method

## Sources

<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=U390621&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390621&amp;Units=SI</a>
<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>

## Legend

<b>cp<sub>g</sub>:</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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

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