

# Succinic acid, 2,2-dichloroethyl cis-pent-2-en-1-yl ester

Inchi:	InChI=1S/C11H16Cl2O4/c1-2-3-4-7-16-10(14)5-6-11(15)17-8-9(12)13/h3-4,9H,2,5-8H2,1
InchiKey:	QXQJLQCGBUJFGT-ARJAWSKDSA-N
Formula:	C11H16Cl2O4
SMILES:	CCC=CCOC(=O)CCC(=O)OCC(Cl)Cl
Mol. weight [g/mol]:	283.15

## Physical Properties

Property code	Value	Unit	Source
gf	-372.18	kJ/mol	Joback Method
hf	-679.51	kJ/mol	Joback Method
hfus	34.89	kJ/mol	Joback Method
hvap	66.73	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.623		Crippen Method
mvol	200.910	ml/mol	McGowan Method
pc	2073.65	kPa	Joback Method
rinpol	1800.00		NIST Webbook
rinpol	1800.00		NIST Webbook
tb	682.24	K	Joback Method
tc	878.76	K	Joback Method
tf	397.81	K	Joback Method
vc	0.771	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	498.46	J/molxK	682.24	Joback Method
cpg	552.34	J/molxK	846.01	Joback Method
cpg	542.89	J/molxK	813.25	Joback Method
cpg	532.79	J/molxK	780.50	Joback Method
cpg	522.03	J/molxK	747.75	Joback Method
cpg	510.59	J/molxK	714.99	Joback Method
cpg	561.14	J/molxK	878.76	Joback Method
dvisc	0.0001126	Paxs	682.24	Joback Method

dvisc	0.0001471	Paxs	634.84	Joback Method
dvisc	0.0002006	Paxs	587.43	Joback Method
dvisc	0.0002888	Paxs	540.02	Joback Method
dvisc	0.0004461	Paxs	492.62	Joback Method
dvisc	0.0007558	Paxs	445.22	Joback Method
dvisc	0.0014520	Paxs	397.81	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=U391259&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391259&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>mccvol:</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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