

# Succinic acid, 2,2-dichloroethyl 2-octyl ester

<b>Inchi:</b>	InChI=1S/C14H24Cl2O4/c1-3-4-5-6-7-11(2)20-14(18)9-8-13(17)19-10-12(15)16/h11-12H
<b>InchiKey:</b>	UUQXPGORUUUKCE-UHFFFAOYSA-N
<b>Formula:</b>	C14H24Cl2O4
<b>SMILES:</b>	CCCCCCC(C)OC(=O)CCC(=O)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	327.24

## Physical Properties

Property code	Value	Unit	Source
gf	-429.58	kJ/mol	Joback Method
hf	-863.93	kJ/mol	Joback Method
hfus	38.94	kJ/mol	Joback Method
hvap	73.06	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	4.016		Crippen Method
mcvol	247.480	ml/mol	McGowan Method
pc	1564.75	kPa	Joback Method
rinsol	1959.00		NIST Webbook
tb	746.28	K	Joback Method
tc	936.02	K	Joback Method
tf	421.70	K	Joback Method
vc	0.954	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	682.41	J/molxK	746.28	Joback Method
cpg	696.76	J/molxK	777.90	Joback Method
cpg	710.26	J/molxK	809.53	Joback Method
cpg	722.93	J/molxK	841.15	Joback Method
cpg	734.78	J/molxK	872.77	Joback Method
cpg	745.80	J/molxK	904.40	Joback Method
cpg	756.02	J/molxK	936.02	Joback Method
dvisc	0.0014066	Paxs	421.70	Joback Method
dvisc	0.0006641	Paxs	475.80	Joback Method

dvisc	0.0003655	Paxs	529.89	Joback Method
dvisc	0.0002247	Paxs	583.99	Joback Method
dvisc	0.0001500	Paxs	638.09	Joback Method
dvisc	0.0001067	Paxs	692.18	Joback Method
dvisc	0.0000797	Paxs	746.28	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=U370976&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370976&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>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

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