

# Succinic acid, di(oct-1-en-3-yl) ester

**Inchi:** InChI=1S/C20H34O4/c1-5-9-11-13-17(7-3)23-19(21)15-16-20(22)24-18(8-4)14-12-10-6-2  
**InchiKey:** YLCZESIFSRBOAP-UHFFFAOYSA-N  
**Formula:** C20H34O4  
**SMILES:** C=CC(CCCCC)OC(=O)CCC(=O)OC(C=C)CCCC  
**Mol. weight [g/mol]:** 338.48

## Physical Properties

Property code	Value	Unit	Source
gf	-179.52	kJ/mol	Joback Method
hf	-705.43	kJ/mol	Joback Method
hfus	43.52	kJ/mol	Joback Method
hvap	76.31	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	5.123		Crippen Method
mvol	298.940	ml/mol	McGowan Method
pc	1152.22	kPa	Joback Method
rinpol	2122.00		NIST Webbook
rinpol	2122.00		NIST Webbook
tb	802.06	K	Joback Method
tc	988.66	K	Joback Method
tf	425.96	K	Joback Method
vc	1.153	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	916.43	J/mol×K	802.06	Joback Method
cpg	933.80	J/mol×K	833.16	Joback Method
cpg	950.16	J/mol×K	864.26	Joback Method
cpg	965.52	J/mol×K	895.36	Joback Method
cpg	979.91	J/mol×K	926.46	Joback Method
cpg	993.36	J/mol×K	957.56	Joback Method
cpg	1005.90	J/mol×K	988.66	Joback Method
dvisc	0.0012128	Paxs	425.96	Joback Method

dvisc	0.0005101	Paxs	488.64	Joback Method
dvisc	0.0002613	Paxs	551.33	Joback Method
dvisc	0.0001534	Paxs	614.01	Joback Method
dvisc	0.0000994	Paxs	676.69	Joback Method
dvisc	0.0000693	Paxs	739.38	Joback Method
dvisc	0.0000512	Paxs	802.06	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=U391324&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391324&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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