

# Succinic acid, pent-4-enyl undecyl ester

**Inchi:** InChI=1S/C20H36O4/c1-3-5-7-8-9-10-11-12-14-18-24-20(22)16-15-19(21)23-17-13-6-4-2  
**InchiKey:** XIIJGXWHOOXZSZ-UHFFFAOYSA-N  
**Formula:** C20H36O4  
**SMILES:** C=CCCCOC(=O)CCC(=O)OCCCCCCCCCCC  
**Mol. weight [g/mol]:** 340.50

## Physical Properties

Property code	Value	Unit	Source
gf	-262.48	kJ/mol	Joback Method
hf	-820.30	kJ/mol	Joback Method
hfus	51.85	kJ/mol	Joback Method
hvap	77.76	kJ/mol	Joback Method
log10ws	-5.77		Crippen Method
logp	5.350		Crippen Method
mvol	303.240	ml/mol	McGowan Method
pc	1108.15	kPa	Joback Method
rinpol	2333.00		NIST Webbook
rinpol	2333.00		NIST Webbook
tb	806.26	K	Joback Method
tc	990.25	K	Joback Method
tf	457.72	K	Joback Method
vc	1.185	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	942.24	J/molxK	806.26	Joback Method
cpg	959.95	J/molxK	836.93	Joback Method
cpg	976.64	J/molxK	867.59	Joback Method
cpg	992.36	J/molxK	898.26	Joback Method
cpg	1007.10	J/molxK	928.92	Joback Method
cpg	1020.90	J/molxK	959.59	Joback Method
cpg	1033.77	J/molxK	990.25	Joback Method
dvisc	0.0008509	Paxs	457.72	Joback Method

dvisc	0.0004205	Paxs	515.81	Joback Method
dvisc	0.0002396	Paxs	573.90	Joback Method
dvisc	0.0001515	Paxs	631.99	Joback Method
dvisc	0.0001034	Paxs	690.08	Joback Method
dvisc	0.0000749	Paxs	748.17	Joback Method
dvisc	0.0000569	Paxs	806.26	Joback Method

## Sources

<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=U353377&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353377&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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