

# Succinic acid, di(pent-4-en-2-yl) ester

<b>Inchi:</b>	InChI=1S/C14H22O4/c1-5-7-11(3)17-13(15)9-10-14(16)18-12(4)8-6-2/h5-6,11-12H,1-2,7
<b>InchiKey:</b>	XWGUCEBPLWAE GX-UHFFFAOYSA-N
<b>Formula:</b>	C14H22O4
<b>SMILES:</b>	<chem>C=CCC(C)OC(=O)CCC(=O)OC(C)CC=C</chem>
<b>Mol. weight [g/mol]:</b>	254.32

## Physical Properties

Property code	Value	Unit	Source
gf	-230.04	kJ/mol	Joback Method
hf	-581.59	kJ/mol	Joback Method
hfus	27.98	kJ/mol	Joback Method
hvap	62.95	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	2.782		Crippen Method
mcvol	214.400	ml/mol	McGowan Method
pc	1780.34	kPa	Joback Method
rinsol	1577.00		NIST Webbook
tb	664.78	K	Joback Method
tc	850.65	K	Joback Method
tf	358.34	K	Joback Method
vc	0.818	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	576.83	J/molxK	664.78	Joback Method
cpg	591.90	J/molxK	695.76	Joback Method
cpg	606.21	J/molxK	726.74	Joback Method
cpg	619.76	J/molxK	757.71	Joback Method
cpg	632.55	J/molxK	788.69	Joback Method
cpg	644.61	J/molxK	819.67	Joback Method
cpg	655.94	J/molxK	850.65	Joback Method
dvisc	0.0022218	Paxs	358.34	Joback Method
dvisc	0.0009940	Paxs	409.41	Joback Method

dvisc	0.0005315	Paxs	460.49	Joback Method
dvisc	0.0003221	Paxs	511.56	Joback Method
dvisc	0.0002138	Paxs	562.63	Joback Method
dvisc	0.0001519	Paxs	613.71	Joback Method
dvisc	0.0001137	Paxs	664.78	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=U353458&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353458&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>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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