

# Succinic acid, di(pent-4-enyl) ester

<b>Inchi:</b>	InChI=1S/C14H22O4/c1-3-5-7-11-17-13(15)9-10-14(16)18-12-8-6-4-2/h3-4H,1-2,5-12H2
<b>InchiKey:</b>	LYTLDAKHQAIDJL-UHFFFAOYSA-N
<b>Formula:</b>	C14H22O4
<b>SMILES:</b>	C=CCCCOC(=O)CCC(=O)OCCCC=C
<b>Mol. weight [g/mol]:</b>	254.32

## Physical Properties

Property code	Value	Unit	Source
gf	-225.16	kJ/mol	Joback Method
hf	-571.03	kJ/mol	Joback Method
hfus	35.03	kJ/mol	Joback Method
hvap	63.73	kJ/mol	Joback Method
log10ws	-3.12		Crippen Method
logp	2.785		Crippen Method
mvol	214.400	ml/mol	McGowan Method
pc	1756.54	kPa	Joback Method
rinpol	1742.00		NIST Webbook
rinpol	1742.00		NIST Webbook
tb	665.66	K	Joback Method
tc	846.06	K	Joback Method
tf	388.34	K	Joback Method
vc	0.830	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.88	J/molxK	665.66	Joback Method
cpg	590.45	J/molxK	695.73	Joback Method
cpg	604.31	J/molxK	725.79	Joback Method
cpg	617.47	J/molxK	755.86	Joback Method
cpg	629.94	J/molxK	785.93	Joback Method
cpg	641.73	J/molxK	816.00	Joback Method
cpg	652.84	J/molxK	846.06	Joback Method
dvisc	0.0014527	Paxs	388.34	Joback Method

dvisc	0.0007877	Paxs	434.56	Joback Method
dvisc	0.0004804	Paxs	480.78	Joback Method
dvisc	0.0003196	Paxs	527.00	Joback Method
dvisc	0.0002270	Paxs	573.22	Joback Method
dvisc	0.0001697	Paxs	619.44	Joback Method
dvisc	0.0001321	Paxs	665.66	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=U353385&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353385&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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