

# Succinic acid, dec-4-enyl propyl ester

<b>Inchi:</b>	InChI=1S/C17H30O4/c1-3-5-6-7-8-9-10-11-15-21-17(19)13-12-16(18)20-14-4-2/h8-9H,3
<b>InchiKey:</b>	MIDVIBRETGJKOZ-CMDGGGOBGSA-N
<b>Formula:</b>	C17H30O4
<b>SMILES:</b>	CCCCC=CCCCOC(=O)CCC(=O)OCCC
<b>Mol. weight [g/mol]:</b>	298.42

## Physical Properties

Property code	Value	Unit	Source
gf	-295.36	kJ/mol	Joback Method
hf	-766.59	kJ/mol	Joback Method
hfus	45.56	kJ/mol	Joback Method
hvap	71.71	kJ/mol	Joback Method
log10ws	-4.52		Crippen Method
logp	4.180		Crippen Method
mvol	260.970	ml/mol	McGowan Method
pc	1365.67	kPa	Joback Method
rinpol	2031.00		NIST Webbook
rinpol	2031.00		NIST Webbook
tb	745.10	K	Joback Method
tc	926.18	K	Joback Method
tf	420.59	K	Joback Method
vc	1.016	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.28	J/molxK	745.10	Joback Method
cpg	783.75	J/molxK	775.28	Joback Method
cpg	799.37	J/molxK	805.46	Joback Method
cpg	814.15	J/molxK	835.64	Joback Method
cpg	828.12	J/molxK	865.82	Joback Method
cpg	841.29	J/molxK	896.00	Joback Method
cpg	853.69	J/molxK	926.18	Joback Method
dvisc	0.0010619	Paxs	420.59	Joback Method

dvisc	0.0005216	Paxs	474.67	Joback Method
dvisc	0.0002963	Paxs	528.76	Joback Method
dvisc	0.0001870	Paxs	582.84	Joback Method
dvisc	0.0001276	Paxs	636.93	Joback Method
dvisc	0.0000924	Paxs	691.01	Joback Method
dvisc	0.0000702	Paxs	745.10	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=U353461&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353461&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

Latest version available from:

<https://www.chemeo.com/cid/12-457-1/Succinic-acid-dec-4-enyl-propyl-ester.pdf>

Generated by Cheméo on 2024-04-20 15:39:23.964605162 +0000 UTC m=+15916812.885182474.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.