

# Succinic acid, non-4-enyl propyl ester

**Inchi:** InChI=1S/C16H28O4/c1-3-5-6-7-8-9-10-14-20-16(18)12-11-15(17)19-13-4-2/h7-8H,3-6,9  
**InchiKey:** AJWUEMXKYZMXMH-BQYQJAHWSA-N  
**Formula:** C16H28O4  
**SMILES:** CCCCC=CCCCOC(=O)CCC(=O)OCCC  
**Mol. weight [g/mol]:** 284.39

## Physical Properties

Property code	Value	Unit	Source
gf	-303.78	kJ/mol	Joback Method
hf	-745.95	kJ/mol	Joback Method
hfus	42.97	kJ/mol	Joback Method
hvap	69.48	kJ/mol	Joback Method
log10ws	-4.10		Crippen Method
logp	3.790		Crippen Method
mcvol	246.880	ml/mol	McGowan Method
pc	1467.98	kPa	Joback Method
rinsol	1936.00		NIST Webbook
tb	722.22	K	Joback Method
tc	902.85	K	Joback Method
tf	409.32	K	Joback Method
vc	0.960	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	710.41	J/molxK	722.22	Joback Method
cpg	726.47	J/molxK	752.33	Joback Method
cpg	741.71	J/molxK	782.43	Joback Method
cpg	756.16	J/molxK	812.54	Joback Method
cpg	769.83	J/molxK	842.64	Joback Method
cpg	782.74	J/molxK	872.75	Joback Method
cpg	794.90	J/molxK	902.85	Joback Method
dvisc	0.0011649	Paxs	409.32	Joback Method
dvisc	0.0005794	Paxs	461.47	Joback Method

dvisc	0.0003321	Paxs	513.62	Joback Method
dvisc	0.0002109	Paxs	565.77	Joback Method
dvisc	0.0001446	Paxs	617.92	Joback Method
dvisc	0.0001051	Paxs	670.07	Joback Method
dvisc	0.0000801	Paxs	722.22	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=U353388&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353388&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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