

# Succinic acid, ethyl non-4-enyl ester

**Inchi:** InChI=1S/C15H26O4/c1-3-5-6-7-8-9-10-13-19-15(17)12-11-14(16)18-4-2/h7-8H,3-6,9-13  
**InchiKey:** RPHXJHLYBOVUEY-BQYQJAHWSA-N  
**Formula:** C15H26O4  
**SMILES:** CCCCC=CCCCOC(=O)CCC(=O)OCC  
**Mol. weight [g/mol]:** 270.36

## Physical Properties

Property code	Value	Unit	Source
gf	-312.20	kJ/mol	Joback Method
hf	-725.31	kJ/mol	Joback Method
hfus	40.38	kJ/mol	Joback Method
hvap	67.25	kJ/mol	Joback Method
log10ws	-3.68		Crippen Method
logp	3.399		Crippen Method
mcvol	232.790	ml/mol	McGowan Method
pc	1582.23	kPa	Joback Method
rinpol	1840.00		NIST Webbook
rinpol	1840.00		NIST Webbook
tb	699.34	K	Joback Method
tc	880.04	K	Joback Method
tf	398.05	K	Joback Method
vc	0.903	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	654.66	J/mol×K	699.34	Joback Method
cpg	670.28	J/mol×K	729.46	Joback Method
cpg	685.13	J/mol×K	759.57	Joback Method
cpg	699.22	J/mol×K	789.69	Joback Method
cpg	712.57	J/mol×K	819.81	Joback Method
cpg	725.18	J/mol×K	849.93	Joback Method
cpg	737.08	J/mol×K	880.04	Joback Method
dvisc	0.0012706	Paxs	398.05	Joback Method

dvisc	0.0006402	Paxs	448.26	Joback Method
dvisc	0.0003703	Paxs	498.48	Joback Method
dvisc	0.0002368	Paxs	548.69	Joback Method
dvisc	0.0001632	Paxs	598.91	Joback Method
dvisc	0.0001192	Paxs	649.12	Joback Method
dvisc	0.0000910	Paxs	699.34	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=U353387&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U353387&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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