

# Succinic acid, ethyl 2-naphthylmethyl ester

**Inchi:** InChI=1S/C17H18O4/c1-2-20-16(18)9-10-17(19)21-12-13-7-8-14-5-3-4-6-15(14)11-13/h3  
**InchiKey:** RJEFCFNYFBWRVHT-UHFFFAOYSA-N  
**Formula:** C17H18O4  
**SMILES:** CCOC(=O)CCC(=O)OCc1ccc2ccccc2c1  
**Mol. weight [g/mol]:** 286.32

## Physical Properties

Property code	Value	Unit	Source
gf	-166.15	kJ/mol	Joback Method
hf	-467.68	kJ/mol	Joback Method
hfus	36.03	kJ/mol	Joback Method
hvap	76.33	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	3.226		Crippen Method
mcvol	222.050	ml/mol	McGowan Method
pc	2071.76	kPa	Joback Method
rinpol	2327.00		NIST Webbook
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tb	791.58	K	Joback Method
tc	1010.50	K	Joback Method
tf	497.31	K	Joback Method
vc	0.850	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	633.40	J/molxK	791.58	Joback Method
cpg	647.17	J/molxK	828.07	Joback Method
cpg	659.92	J/molxK	864.55	Joback Method
cpg	671.70	J/molxK	901.04	Joback Method
cpg	682.54	J/molxK	937.53	Joback Method
cpg	692.49	J/molxK	974.01	Joback Method
cpg	701.60	J/molxK	1010.50	Joback Method
dvisc	0.0008938	Paxs	497.31	Joback Method

dvisc	0.0005867	Paxs	546.36	Joback Method
dvisc	0.0004128	Paxs	595.40	Joback Method
dvisc	0.0003064	Paxs	644.45	Joback Method
dvisc	0.0002372	Paxs	693.49	Joback Method
dvisc	0.0001899	Paxs	742.54	Joback Method
dvisc	0.0001563	Paxs	791.58	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U389979&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389979&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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