

# Succinic acid, 2,2-dichloroethyl 2-naphthylmethyl ester

<b>Inchi:</b>	InChI=1S/C17H16Cl2O4/c18-15(19)11-23-17(21)8-7-16(20)22-10-12-5-6-13-3-1-2-4-14(
<b>InchiKey:</b>	IRNAXKBUXAHRGJ-UHFFFAOYSA-N
<b>Formula:</b>	C17H16Cl2O4
<b>SMILES:</b>	O=C(CCC(=O)OCC(Cl)Cl)OCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	355.21

## Physical Properties

Property code	Value	Unit	Source
gf	-192.45	kJ/mol	Joback Method
hf	-504.44	kJ/mol	Joback Method
hfus	40.90	kJ/mol	Joback Method
hvap	84.71	kJ/mol	Joback Method
log10ws	-5.31		Crippen Method
logp	4.010		Crippen Method
mcvol	246.530	ml/mol	McGowan Method
pc	1952.68	kPa	Joback Method
rinpol	2767.00		NIST Webbook
rinpol	2767.00		NIST Webbook
tb	866.00	K	Joback Method
tc	1094.35	K	Joback Method
tf	542.15	K	Joback Method
vc	0.942	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	679.74	J/molxK	866.00	Joback Method
cpg	691.31	J/molxK	904.06	Joback Method
cpg	701.87	J/molxK	942.12	Joback Method
cpg	711.49	J/molxK	980.18	Joback Method
cpg	720.22	J/molxK	1018.24	Joback Method
cpg	728.10	J/molxK	1056.30	Joback Method
cpg	735.20	J/molxK	1094.35	Joback Method
dvisc	0.0007373	Paxs	542.15	Joback Method

dvisc	0.0004687	Paxs	596.13	Joback Method
dvisc	0.0003212	Paxs	650.10	Joback Method
dvisc	0.0002333	Paxs	704.08	Joback Method
dvisc	0.0001773	Paxs	758.05	Joback Method
dvisc	0.0001398	Paxs	812.03	Joback Method
dvisc	0.0001135	Paxs	866.00	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=U390000&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390000&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>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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