

# Succinic acid, 2-(2-chlorophenoxy)ethyl 2-methylhex-3-yl ester

<b>Inchi:</b>	InChI=1S/C19H27ClO5/c1-4-7-16(14(2)3)25-19(22)11-10-18(21)24-13-12-23-17-9-6-5-8
<b>InchiKey:</b>	YZWIWRJZURBTNK-UHFFFAOYSA-N
<b>Formula:</b>	C19H27ClO5
<b>SMILES:</b>	CCCC(OC(=O)CCC(=O)OCCOc1ccccc1Cl)C(C)C
<b>Mol. weight [g/mol]:</b>	370.87

## Physical Properties

Property code	Value	Unit	Source
gf	-377.77	kJ/mol	Joback Method
hf	-858.55	kJ/mol	Joback Method
hfus	42.53	kJ/mol	Joback Method
hvap	85.16	kJ/mol	Joback Method
log10ws	-4.89		Crippen Method
logp	4.410		Crippen Method
mcvol	287.800	ml/mol	McGowan Method
pc	1400.64	kPa	Joback Method
rinpol	2500.00		NIST Webbook
rinpol	2500.00		NIST Webbook
tb	877.33	K	Joback Method
tc	1086.28	K	Joback Method
tf	509.30	K	Joback Method
vc	1.095	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	875.65	J/molxK	877.33	Joback Method
cpg	890.07	J/molxK	912.15	Joback Method
cpg	903.23	J/molxK	946.98	Joback Method
cpg	915.14	J/molxK	981.80	Joback Method
cpg	925.82	J/molxK	1016.63	Joback Method
cpg	935.27	J/molxK	1051.45	Joback Method
cpg	943.51	J/molxK	1086.28	Joback Method
dvisc	0.0004708	Paxs	509.30	Joback Method

dvisc	0.0002403	Paxs	570.64	Joback Method
dvisc	0.0001397	Paxs	631.98	Joback Method
dvisc	0.0000894	Paxs	693.31	Joback Method
dvisc	0.0000615	Paxs	754.65	Joback Method
dvisc	0.0000448	Paxs	815.99	Joback Method
dvisc	0.0000341	Paxs	877.33	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=U381536&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381536&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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