

# Succinic acid, 2-methylpent-3-yl 2-chloro-4-methylphenyl ester

**Inchi:** InChI=1S/C17H23ClO4/c1-5-14(11(2)3)21-16(19)8-9-17(20)22-15-7-6-12(4)10-13(15)18/  
**InchiKey:** FEINOEVWJMWXNE-UHFFFAOYSA-N  
**Formula:** C17H23ClO4  
**SMILES:** CCC(OC(=O)CCC(=O)Oc1ccc(C)cc1Cl)C(C)C  
**Mol. weight [g/mol]:** 326.81

## Physical Properties

Property code	Value	Unit	Source
gf	-299.24	kJ/mol	Joback Method
hf	-696.52	kJ/mol	Joback Method
hfus	35.77	kJ/mol	Joback Method
hvap	78.96	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	4.312		Crippen Method
mcvol	253.750	ml/mol	McGowan Method
pc	1628.54	kPa	Joback Method
rinpol	2218.00		NIST Webbook
rinpol	2218.00		NIST Webbook
tb	814.13	K	Joback Method
tc	1024.57	K	Joback Method
tf	477.05	K	Joback Method
vc	0.965	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	731.48	J/molxK	814.13	Joback Method
cpg	793.30	J/molxK	989.50	Joback Method
cpg	783.08	J/molxK	954.42	Joback Method
cpg	771.80	J/molxK	919.35	Joback Method
cpg	759.44	J/molxK	884.28	Joback Method
cpg	746.01	J/molxK	849.20	Joback Method
cpg	802.47	J/molxK	1024.57	Joback Method
dvisc	0.0000615	Paxs	814.13	Joback Method

dvisc	0.0000795	Paxs	757.95	Joback Method
dvisc	0.0001072	Paxs	701.77	Joback Method
dvisc	0.0001521	Paxs	645.59	Joback Method
dvisc	0.0002309	Paxs	589.41	Joback Method
dvisc	0.0003826	Paxs	533.23	Joback Method
dvisc	0.0007140	Paxs	477.05	Joback Method

## Sources

<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=U390213&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390213&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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