

# Succinic acid, 3-chlorophenyl cyclopentyl ester

<b>Inchi:</b>	InChI=1S/C15H17ClO4/c16-11-4-3-7-13(10-11)20-15(18)9-8-14(17)19-12-5-1-2-6-12/h3-
<b>InchiKey:</b>	XWLBYZDZZKSFIW-UHFFFAOYSA-N
<b>Formula:</b>	C15H17ClO4
<b>SMILES:</b>	O=C(CCC(=O)OC1CCCC1)Oc1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	296.75

## Physical Properties

Property code	Value	Unit	Source
gf	-265.02	kJ/mol	Joback Method
hf	-572.73	kJ/mol	Joback Method
hfus	31.96	kJ/mol	Joback Method
hvap	74.88	kJ/mol	Joback Method
log10ws	-4.27		Crippen Method
logp	3.511		Crippen Method
mvol	214.710	ml/mol	McGowan Method
pc	2252.53	kPa	Joback Method
rinpol	2246.00		NIST Webbook
rinpol	2246.00		NIST Webbook
tb	779.55	K	Joback Method
tc	1009.41	K	Joback Method
tf	482.89	K	Joback Method
vc	0.805	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	609.69	J/molxK	779.55	Joback Method
cpg	624.49	J/molxK	817.86	Joback Method
cpg	638.04	J/molxK	856.17	Joback Method
cpg	650.37	J/molxK	894.48	Joback Method
cpg	661.50	J/molxK	932.79	Joback Method
cpg	671.46	J/molxK	971.10	Joback Method
cpg	680.30	J/molxK	1009.41	Joback Method
dvisc	0.0010162	Paxs	482.89	Joback Method

dvisc	0.0006254	Paxs	532.33	Joback Method
dvisc	0.0004180	Paxs	581.78	Joback Method
dvisc	0.0002976	Paxs	631.22	Joback Method
dvisc	0.0002226	Paxs	680.66	Joback Method
dvisc	0.0001731	Paxs	730.11	Joback Method
dvisc	0.0001391	Paxs	779.55	Joback Method

## Sources

<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=U391379&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391379&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>

## 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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