

# Succinic acid, 2,4,6-trichlorophenyl 2-chloro-4-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C17H12Cl4O4/c1-9-2-3-14(11(19)6-9)24-15(22)4-5-16(23)25-17-12(20)7-10(18)
<b>InchiKey:</b>	VATLTAHRFXCCS-UHFFFAOYSA-N
<b>Formula:</b>	C17H12Cl4O4
<b>SMILES:</b>	<chem>Cc1ccc(OC(=O)CCC(=O)Oc2c(Cl)cc(Cl)cc2Cl)c(Cl)c1</chem>
<b>Mol. weight [g/mol]:</b>	422.09

## Physical Properties

Property code	Value	Unit	Source
gf	-246.63	kJ/mol	Joback Method
hf	-531.06	kJ/mol	Joback Method
hfus	48.29	kJ/mol	Joback Method
hvap	97.15	kJ/mol	Joback Method
log10ws	-6.96		Crippen Method
logp	5.900		Crippen Method
mcvol	266.710	ml/mol	McGowan Method
pc	1859.51	kPa	Joback Method
rinpol	2953.00		NIST Webbook
rinpol	2953.00		NIST Webbook
tb	968.92	K	Joback Method
tc	1214.51	K	Joback Method
tf	660.79	K	Joback Method
vc	1.016	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	686.12	J/molxK	968.92	Joback Method
cpg	694.03	J/molxK	1009.85	Joback Method
cpg	700.69	J/molxK	1050.78	Joback Method
cpg	706.12	J/molxK	1091.71	Joback Method
cpg	710.32	J/molxK	1132.64	Joback Method
cpg	713.31	J/molxK	1173.57	Joback Method
cpg	715.10	J/molxK	1214.51	Joback Method
dvisc	0.0002316	Paxs	660.79	Joback Method

dvisc	0.0001643	Paxs	712.15	Joback Method
dvisc	0.0001221	Paxs	763.50	Joback Method
dvisc	0.0000942	Paxs	814.86	Joback Method
dvisc	0.0000749	Paxs	866.21	Joback Method
dvisc	0.0000612	Paxs	917.57	Joback Method
dvisc	0.0000510	Paxs	968.92	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=U390223&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390223&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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