

# Succinic acid, 2,3-dichlorophenyl cis-hex-2-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C16H18Cl2O4/c1-2-3-4-5-11-21-14(19)9-10-15(20)22-13-8-6-7-12(17)16(13)18
<b>InchiKey:</b>	DGBJXHUWZCECNX-PLNGDYQASA-N
<b>Formula:</b>	C16H18Cl2O4
<b>SMILES:</b>	CCCC=CCOC(=O)CCC(=O)Oc1cccc(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	345.22

## Physical Properties

Property code	Value	Unit	Source
gf	-234.49	kJ/mol	Joback Method
hf	-563.84	kJ/mol	Joback Method
hfus	44.63	kJ/mol	Joback Method
hvap	81.85	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	4.578		Crippen Method
mvol	247.600	ml/mol	McGowan Method
pc	1760.97	kPa	Joback Method
rinpol	2462.00		NIST Webbook
rinpol	2462.00		NIST Webbook
tb	833.72	K	Joback Method
tc	1049.62	K	Joback Method
tf	520.62	K	Joback Method
vc	0.950	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	672.16	J/molxK	833.72	Joback Method
cpg	684.45	J/molxK	869.70	Joback Method
cpg	695.79	J/molxK	905.69	Joback Method
cpg	706.20	J/molxK	941.67	Joback Method
cpg	715.71	J/molxK	977.65	Joback Method
cpg	724.35	J/molxK	1013.64	Joback Method
cpg	732.14	J/molxK	1049.62	Joback Method
dvisc	0.0004803	Paxs	520.62	Joback Method

dvisc	0.0002941	Paxs	572.80	Joback Method
dvisc	0.0001954	Paxs	624.99	Joback Method
dvisc	0.0001383	Paxs	677.17	Joback Method
dvisc	0.0001029	Paxs	729.35	Joback Method
dvisc	0.0000796	Paxs	781.54	Joback Method
dvisc	0.0000636	Paxs	833.72	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=U391308&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391308&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>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>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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