

# Succinic acid, 2,4-dichlorophenethyl pentadecyl ester

<b>Inchi:</b>	InChI=1S/C27H42Cl2O4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-20-32-26(30)17-18-27(31)3
<b>InchiKey:</b>	WFNDKKXMEGFZPS-UHFFFAOYSA-N
<b>Formula:</b>	C27H42Cl2O4
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCCc1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	501.53

## Physical Properties

Property code	Value	Unit	Source
gf	-222.09	kJ/mol	Joback Method
hf	-908.10	kJ/mol	Joback Method
hfus	72.92	kJ/mol	Joback Method
hvap	106.38	kJ/mol	Joback Method
log10ws	-9.32		Crippen Method
logp	8.494		Crippen Method
mvol	406.890	ml/mol	McGowan Method
pc	820.54	kPa	Joback Method
rinpol	3476.00		NIST Webbook
rinpol	3476.00		NIST Webbook
tb	1081.24	K	Joback Method
tc	1331.71	K	Joback Method
tf	649.67	K	Joback Method
vc	1.585	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1354.70	J/molxK	1081.24	Joback Method
cpg	1413.69	J/molxK	1289.96	Joback Method
cpg	1405.28	J/molxK	1248.22	Joback Method
cpg	1395.25	J/molxK	1206.47	Joback Method
cpg	1383.53	J/molxK	1164.73	Joback Method
cpg	1370.04	J/molxK	1122.98	Joback Method
cpg	1420.56	J/molxK	1331.71	Joback Method
dvisc	0.0000139	Paxs	1081.24	Joback Method

dvisc	0.0000179	Paxs	1009.31	Joback Method
dvisc	0.0000241	Paxs	937.38	Joback Method
dvisc	0.0000339	Paxs	865.45	Joback Method
dvisc	0.0000508	Paxs	793.53	Joback Method
dvisc	0.0000825	Paxs	721.60	Joback Method
dvisc	0.0001493	Paxs	649.67	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U381599&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381599&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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