

# Succinic acid, di(2,3,5-trichlorophenyl) ester

**Inchi:** InChI=1S/C16H8Cl6O4/c17-7-3-9(19)15(21)11(5-7)25-13(23)1-2-14(24)26-12-6-8(18)4-1  
**InchiKey:** POGRXWJDWDDOOU-UHFFFAOYSA-N  
**Formula:** C16H8Cl6O4  
**SMILES:** O=C(CCC(=O)Oc1cc(Cl)cc(Cl)c1Cl)Oc1cc(Cl)cc(Cl)c1Cl  
**Mol. weight [g/mol]:** 476.95

## Physical Properties

Property code	Value	Unit	Source
gf	-288.54	kJ/mol	Joback Method
hf	-553.37	kJ/mol	Joback Method
hfus	53.70	kJ/mol	Joback Method
hvap	104.36	kJ/mol	Joback Method
log10ws	-7.86		Crippen Method
logp	6.898		Crippen Method
mvol	277.100	ml/mol	McGowan Method
pc	1870.79	kPa	Joback Method
rinpol	3199.00		NIST Webbook
rinpol	3199.00		NIST Webbook
tb	1025.88	K	Joback Method
tc	1280.42	K	Joback Method
tf	721.88	K	Joback Method
vc	1.058	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	657.78	J/molxK	1025.88	Joback Method
cpg	662.72	J/molxK	1068.30	Joback Method
cpg	666.41	J/molxK	1110.73	Joback Method
cpg	668.86	J/molxK	1153.15	Joback Method
cpg	670.07	J/molxK	1195.57	Joback Method
cpg	670.03	J/molxK	1238.00	Joback Method
cpg	668.76	J/molxK	1280.42	Joback Method
dvisc	0.0001712	Paxs	721.88	Joback Method

dvisc	0.0001264	Paxs	772.55	Joback Method
dvisc	0.0000968	Paxs	823.21	Joback Method
dvisc	0.0000765	Paxs	873.88	Joback Method
dvisc	0.0000621	Paxs	924.55	Joback Method
dvisc	0.0000514	Paxs	975.21	Joback Method
dvisc	0.0000434	Paxs	1025.88	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=U349618&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U349618&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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