

# Succinic acid, 8-chlorooctyl 3,5-dichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C18H23Cl3O4/c19-9-5-3-1-2-4-6-10-24-17(22)7-8-18(23)25-16-12-14(20)11-15
<b>InchiKey:</b>	BSIMNPHSEYZKAR-UHFFFAOYSA-N
<b>Formula:</b>	C18H23Cl3O4
<b>SMILES:</b>	O=C(CCC(=O)Oc1cc(Cl)cc(Cl)c1)OCCCCCCCCCl
<b>Mol. weight [g/mol]:</b>	409.73

## Physical Properties

Property code	Value	Unit	Source
gf	-309.80	kJ/mol	Joback Method
hf	-738.08	kJ/mol	Joback Method
hfus	53.80	kJ/mol	Joback Method
hvap	90.73	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	5.802		Crippen Method
mcvol	292.320	ml/mol	McGowan Method
pc	1409.07	kPa	Joback Method
rinpol	2986.00		NIST Webbook
rinpol	2986.00		NIST Webbook
tb	912.75	K	Joback Method
tc	1127.41	K	Joback Method
tf	578.16	K	Joback Method
vc	1.131	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	835.59	J/molxK	912.75	Joback Method
cpg	847.71	J/molxK	948.53	Joback Method
cpg	858.72	J/molxK	984.30	Joback Method
cpg	868.65	J/molxK	1020.08	Joback Method
cpg	877.51	J/molxK	1055.86	Joback Method
cpg	885.34	J/molxK	1091.63	Joback Method
cpg	892.14	J/molxK	1127.41	Joback Method
dvisc	0.0003531	Paxs	578.16	Joback Method

dvisc	0.0002175	Paxs	633.93	Joback Method
dvisc	0.0001448	Paxs	689.69	Joback Method
dvisc	0.0001025	Paxs	745.46	Joback Method
dvisc	0.0000761	Paxs	801.22	Joback Method
dvisc	0.0000588	Paxs	856.99	Joback Method
dvisc	0.0000468	Paxs	912.75	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=U390159&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390159&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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>log<sub>10</sub>ws:</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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