

# Succinic acid, 2,2-dichloroethyl 2,3,4-trifluorophenyl ester

<b>Inchi:</b>	InChI=1S/C12H9Cl2F3O4/c13-8(14)5-20-9(18)3-4-10(19)21-7-2-1-6(15)11(16)12(7)17/h
<b>InchiKey:</b>	JHCRWTPPMWTGNJ-UHFFFAOYSA-N
<b>Formula:</b>	C12H9Cl2F3O4
<b>SMILES:</b>	O=C(CCC(=O)Oc1ccc(F)c(F)c1F)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	345.10

## Physical Properties

Property code	Value	Unit	Source
gf	-944.89	kJ/mol	Joback Method
hf	-1203.58	kJ/mol	Joback Method
hfus	39.39	kJ/mol	Joback Method
hvap	70.81	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	3.136		Crippen Method
mcvol	200.850	ml/mol	McGowan Method
pc	2079.33	kPa	Joback Method
rinsol	1967.00		NIST Webbook
tb	740.39	K	Joback Method
tc	940.47	K	Joback Method
tf	479.91	K	Joback Method
vc	0.793	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	505.94	J/molxK	740.39	Joback Method
cpg	515.83	J/molxK	773.74	Joback Method
cpg	525.01	J/molxK	807.08	Joback Method
cpg	533.48	J/molxK	840.43	Joback Method
cpg	541.24	J/molxK	873.78	Joback Method
cpg	548.28	J/molxK	907.12	Joback Method
cpg	554.60	J/molxK	940.47	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=U390759&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390759&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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvac:</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>mccvol:</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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