

# Succinic acid, 2,3-dichlorophenyl 2-fluoro-3-(trifluoromethyl)phenyl ester

<b>Inchi:</b>	InChI=1S/C17H10Cl2F4O4/c18-10-4-2-5-11(15(10)19)26-13(24)7-8-14(25)27-12-6-1-3-9
<b>InchiKey:</b>	BNERIOBYOVUPBC-UHFFFAOYSA-N
<b>Formula:</b>	C17H10Cl2F4O4
<b>SMILES:</b>	O=C(CCC(=O)Oc1cccc(Cl)c1Cl)Oc1cccc(C(F)(F)F)c1F
<b>Mol. weight [g/mol]:</b>	425.16

## Physical Properties

Property code	Value	Unit	Source
gf	-989.54	kJ/mol	Joback Method
hf	-1281.30	kJ/mol	Joback Method
hfus	45.19	kJ/mol	Joback Method
hvap	83.15	kJ/mol	Joback Method
log10ws	-6.55		Crippen Method
logp	5.442		Crippen Method
mvol	249.310	ml/mol	McGowan Method
pc	1749.21	kPa	Joback Method
rinpol	2518.00		NIST Webbook
rinpol	2518.00		NIST Webbook
tb	882.93	K	Joback Method
tc	1103.08	K	Joback Method
tf	593.21	K	Joback Method
vc	0.979	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	682.60	J/molxK	882.93	Joback Method
cpg	691.77	J/molxK	919.62	Joback Method
cpg	699.96	J/molxK	956.31	Joback Method
cpg	707.21	J/molxK	993.01	Joback Method
cpg	713.56	J/molxK	1029.70	Joback Method
cpg	719.04	J/molxK	1066.39	Joback Method
cpg	723.70	J/molxK	1103.08	Joback Method

# Sources

<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=U390791&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390791&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>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>rinpola:</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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