

# Succinic acid, 2-fluorophenyl 2,4,5-trichlorophenyl ester

**Inchi:** InChI=1S/C16H10Cl3FO4/c17-9-7-11(19)14(8-10(9)18)24-16(22)6-5-15(21)23-13-4-2-1-3  
**InchiKey:** UMESFYUVGODDJV-UHFFFAOYSA-N  
**Formula:** C16H10Cl3FO4  
**SMILES:** O=C(CCC(=O)Oc1cc(Cl)c(Cl)cc1Cl)Oc1ccccc1F  
**Mol. weight [g/mol]:** 391.61

## Physical Properties

Property code	Value	Unit	Source
gf	-428.30	kJ/mol	Joback Method
hf	-679.32	kJ/mol	Joback Method
hfus	44.97	kJ/mol	Joback Method
hvap	89.06	kJ/mol	Joback Method
log10ws	-6.13		Crippen Method
logp	5.077		Crippen Method
mvol	242.150	ml/mol	McGowan Method
pc	2036.39	kPa	Joback Method
rinpol	2621.00		NIST Webbook
rinpol	2621.00		NIST Webbook
tb	902.90	K	Joback Method
tc	1140.03	K	Joback Method
tf	607.67	K	Joback Method
vc	0.928	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	622.99	J/mol×K	902.90	Joback Method
cpg	631.74	J/mol×K	942.42	Joback Method
cpg	639.37	J/mol×K	981.94	Joback Method
cpg	645.90	J/mol×K	1021.46	Joback Method
cpg	651.33	J/mol×K	1060.98	Joback Method
cpg	655.68	J/mol×K	1100.50	Joback Method
cpg	658.96	J/mol×K	1140.03	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U389967&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389967&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>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>hvp:</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>rinp:</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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