

# Succinic acid, 8-chlorooctyl 2-fluorophenyl ester

Inchi:	InChI=1S/C18H24ClFO4/c19-13-7-3-1-2-4-8-14-23-17(21)11-12-18(22)24-16-10-6-5-9-1
InchiKey:	AGWDWHGYJZQRHF-UHFFFAOYSA-N
Formula:	C18H24ClFO4
SMILES:	O=C(CCC(=O)Oc1ccccc1F)OCCCCCCCCCl
Mol. weight [g/mol]:	358.83

## Physical Properties

Property code	Value	Unit	Source
gf	-471.12	kJ/mol	Joback Method
hf	-891.24	kJ/mol	Joback Method
hfus	48.88	kJ/mol	Joback Method
hvap	80.48	kJ/mol	Joback Method
log10ws	-5.32		Crippen Method
logp	4.634		Crippen Method
mvol	269.610	ml/mol	McGowan Method
pc	1456.79	kPa	Joback Method
rinpol	2532.00		NIST Webbook
rinpol	2532.00		NIST Webbook
tb	832.18	K	Joback Method
tc	1031.68	K	Joback Method
tf	506.39	K	Joback Method
vc	1.050	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	795.83	J/mol×K	832.18	Joback Method
cpg	809.93	J/mol×K	865.43	Joback Method
cpg	823.01	J/mol×K	898.68	Joback Method
cpg	835.09	J/mol×K	931.93	Joback Method
cpg	846.19	J/mol×K	965.18	Joback Method
cpg	856.33	J/mol×K	998.43	Joback Method
cpg	865.52	J/mol×K	1031.68	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U390315&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390315&amp;Units=SI</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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