

# Succinic acid, 2-fluorophenyl but-2-en-1-yl ester

Inchi:	InChI=1S/C14H15FO4/c1-2-3-10-18-13(16)8-9-14(17)19-12-7-5-4-6-11(12)15/h2-7H,8-10
InchiKey:	BSDSKJLWRBUWHE-NSCUHMNNSA-N
Formula:	C14H15FO4
SMILES:	CC=CCOC(=O)CCC(=O)Oc1ccccc1F
Mol. weight [g/mol]:	266.26

## Physical Properties

Property code	Value	Unit	Source
gf	-412.65	kJ/mol	Joback Method
hf	-675.72	kJ/mol	Joback Method
hfus	34.52	kJ/mol	Joback Method
hvap	67.15	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	2.631		Crippen Method
mcvol	196.710	ml/mol	McGowan Method
pc	2169.38	kPa	Joback Method
rinpola	1877.00		NIST Webbook
rinpola	1877.00		NIST Webbook
tb	707.39	K	Joback Method
tc	912.44	K	Joback Method
tf	426.31	K	Joback Method
vc	0.757	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.47	J/molxK	707.39	Joback Method
cpg	537.67	J/molxK	741.57	Joback Method
cpg	550.04	J/molxK	775.74	Joback Method
cpg	561.57	J/molxK	809.92	Joback Method
cpg	572.30	J/molxK	844.09	Joback Method
cpg	582.24	J/molxK	878.27	Joback Method
cpg	591.42	J/molxK	912.44	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=U391222&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391222&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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