

# Succinic acid, hept-2-yl 2-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C17H23FO4/c1-3-4-5-8-13(2)21-16(19)11-12-17(20)22-15-10-7-6-9-14(15)18/
<b>InchiKey:</b>	FAEUNBUCNVFYNW-UHFFFAOYSA-N
<b>Formula:</b>	C17H23FO4
<b>SMILES:</b>	CCCCC(C)OC(=O)CCC(=O)Oc1ccccc1F
<b>Mol. weight [g/mol]:</b>	310.36

## Physical Properties

Property code	Value	Unit	Source
gf	-470.05	kJ/mol	Joback Method
hf	-860.14	kJ/mol	Joback Method
hfus	38.57	kJ/mol	Joback Method
hvap	73.48	kJ/mol	Joback Method
log10ws	-4.86		Crippen Method
logp	4.023		Crippen Method
mvol	243.280	ml/mol	McGowan Method
pc	1627.22	kPa	Joback Method
rinpol	2015.00		NIST Webbook
rinpol	2015.00		NIST Webbook
tb	771.43	K	Joback Method
tc	968.49	K	Joback Method
tf	450.20	K	Joback Method
vc	0.940	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	712.53	J/mol×K	771.43	Joback Method
cpg	727.61	J/mol×K	804.27	Joback Method
cpg	741.70	J/mol×K	837.12	Joback Method
cpg	754.82	J/mol×K	869.96	Joback Method
cpg	766.97	J/mol×K	902.80	Joback Method
cpg	778.18	J/mol×K	935.65	Joback Method
cpg	788.46	J/mol×K	968.49	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=U390309&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390309&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>h vap:</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>r in pol:</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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