

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

Inchi:	InChI=1S/C22H31FO4/c1-2-3-4-5-6-7-8-9-10-13-18-26-21(24)16-17-22(25)27-20-15-12-
InchiKey:	GHGKNKVWHZFUGN-JLHYYAGUSA-N
Formula:	C22H31FO4
SMILES:	CCCCCCCCC=CCOC(=O)CCC(=O)Oc1ccccc1F
Mol. weight [g/mol]:	378.48

## Physical Properties

Property code	Value	Unit	Source
gf	-345.29	kJ/mol	Joback Method
hf	-840.84	kJ/mol	Joback Method
hfus	55.24	kJ/mol	Joback Method
hvap	84.96	kJ/mol	Joback Method
log10ws	-6.69		Crippen Method
logp	5.751		Crippen Method
mvol	309.430	ml/mol	McGowan Method
pc	1176.85	kPa	Joback Method
rinpol	2614.00		NIST Webbook
rinpol	2614.00		NIST Webbook
tb	890.43	K	Joback Method
tc	1093.84	K	Joback Method
tf	516.47	K	Joback Method
vc	1.206	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	977.21	J/mol×K	890.43	Joback Method
cpg	993.01	J/mol×K	924.33	Joback Method
cpg	1007.69	J/mol×K	958.23	Joback Method
cpg	1021.29	J/mol×K	992.14	Joback Method
cpg	1033.84	J/mol×K	1026.04	Joback Method
cpg	1045.40	J/mol×K	1059.94	Joback Method
cpg	1056.00	J/mol×K	1093.84	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390317&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390317&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

Latest version available from:

<https://www.chemeo.com/cid/95-947-6/Succinic-acid-dodec-2-en-1-yl-2-fluorophenyl-ester.pdf>

Generated by Cheméo on 2024-04-26 08:34:47.025883164 +0000 UTC m=+16409735.946460479.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.