

# Sebacic acid, 3,5-difluorophenyl undecyl ester

**Inchi:** InChI=1S/C27H42F2O4/c1-2-3-4-5-6-7-10-13-16-19-32-26(30)17-14-11-8-9-12-15-18-27  
**InchiKey:** JCRWRTJCORKIAL-UHFFFAOYSA-N  
**Formula:** C27H42F2O4  
**SMILES:** CCCCCCCCCCOC(=O)CCCCCCCCC(=O)Oc1cc(F)cc(F)c1  
**Mol. weight [g/mol]:** 468.62

## Physical Properties

Property code	Value	Unit	Source
gf	-587.85	kJ/mol	Joback Method
hf	-1268.84	kJ/mol	Joback Method
hfus	70.68	kJ/mol	Joback Method
hvap	95.97	kJ/mol	Joback Method
log10ws	-9.26		Crippen Method
logp	8.065		Crippen Method
mcvol	385.950	ml/mol	McGowan Method
pc	813.07	kPa	Joback Method
rinpol	3163.00		NIST Webbook
tb	1004.92	K	Joback Method
tc	1237.97	K	Joback Method
tf	591.01	K	Joback Method
vc	1.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1319.25	J/mol×K	1004.92	Joback Method
cpg	1337.11	J/mol×K	1043.76	Joback Method
cpg	1353.20	J/mol×K	1082.60	Joback Method
cpg	1367.59	J/mol×K	1121.44	Joback Method
cpg	1380.33	J/mol×K	1160.28	Joback Method
cpg	1391.48	J/mol×K	1199.12	Joback Method
cpg	1401.11	J/mol×K	1237.97	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354533&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354533&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>

# 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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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