

# Sebacic acid, 3,5-difluorophenyl tetradecyl ester

Inchi:	InChI=1S/C30H48F2O4/c1-2-3-4-5-6-7-8-9-10-13-16-19-22-35-29(33)20-17-14-11-12-15
InchiKey:	KOWFMXBIUZDZAK-UHFFFAOYSA-N
Formula:	C30H48F2O4
SMILES:	CCCCCCCCCCCCCOC(=O)CCCCCCCC(=O)Oc1cc(F)cc(F)c1
Mol. weight [g/mol]:	510.70

## Physical Properties

Property code	Value	Unit	Source
gf	-562.59	kJ/mol	Joback Method
hf	-1330.76	kJ/mol	Joback Method
hfus	78.45	kJ/mol	Joback Method
hvap	102.65	kJ/mol	Joback Method
log10ws	-10.52		Crippen Method
logp	9.235		Crippen Method
mcvol	428.220	ml/mol	McGowan Method
pc	694.35	kPa	Joback Method
rinpola	3470.00		NIST Webbook
rinpola	3470.00		NIST Webbook
tb	1073.56	K	Joback Method
tc	1341.16	K	Joback Method
tf	624.82	K	Joback Method
vc	1.692	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1508.93	J/molxK	1073.56	Joback Method
cpg	1528.25	J/molxK	1118.16	Joback Method
cpg	1545.22	J/molxK	1162.76	Joback Method
cpg	1559.95	J/molxK	1207.36	Joback Method
cpg	1572.55	J/molxK	1251.96	Joback Method
cpg	1583.12	J/molxK	1296.56	Joback Method
cpg	1591.78	J/molxK	1341.16	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=U354536&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354536&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>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>rlnol:</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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