

# Succinic acid, 4-fluorophenethyl octadecyl ester

Inchi:	InChI=1S/C30H49FO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-25-34-29(32)22-23-3
InchiKey:	STIXMOJRMBNKPA-UHFFFAOYSA-N
Formula:	C30H49FO4
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCCc1ccc(F)cc1
Mol. weight [g/mol]:	492.71

## Physical Properties

Property code	Value	Unit	Source
gf	-358.15	kJ/mol	Joback Method
hf	-1123.18	kJ/mol	Joback Method
hfus	75.76	kJ/mol	Joback Method
hvap	102.81	kJ/mol	Joback Method
log10ws	-9.54		Crippen Method
logp	8.496		Crippen Method
mvol	426.450	ml/mol	McGowan Method
pc	716.83	kPa	Joback Method
rinpol	3291.00		NIST Webbook
rinpol	3291.00		NIST Webbook
tb	1069.31	K	Joback Method
tc	1329.04	K	Joback Method
tf	611.71	K	Joback Method
vc	1.673	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1503.27	J/molxK	1069.31	Joback Method
cpg	1522.55	J/molxK	1112.60	Joback Method
cpg	1539.65	J/molxK	1155.89	Joback Method
cpg	1554.68	J/molxK	1199.17	Joback Method
cpg	1567.76	J/molxK	1242.46	Joback Method
cpg	1578.99	J/molxK	1285.75	Joback Method
cpg	1588.48	J/molxK	1329.04	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=U381310&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381310&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>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

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