

# Succinic acid, 2-(pentafluorophenoxy)ethyl undecyl ester

<b>Inchi:</b>	InChI=1S/C23H31F5O5/c1-2-3-4-5-6-7-8-9-10-13-31-16(29)11-12-17(30)32-14-15-33-23
<b>InchiKey:</b>	LSRDIPHYMAVJQQ-UHFFFAOYSA-N
<b>Formula:</b>	C23H31F5O5
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCC(=O)OCCOc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	482.48

## Physical Properties

Property code	Value	Unit	Source
gf	-1339.85	kJ/mol	Joback Method
hf	-1941.24	kJ/mol	Joback Method
hfus	69.58	kJ/mol	Joback Method
hvap	89.02	kJ/mol	Joback Method
log10ws	-7.67		Crippen Method
logp	6.158		Crippen Method
mcvol	340.770	ml/mol	McGowan Method
pc	907.24	kPa	Joback Method
rinpol	2776.00		NIST Webbook
rinpol	2776.00		NIST Webbook
tb	948.57	K	Joback Method
tc	1167.15	K	Joback Method
tf	607.49	K	Joback Method
vc	1.371	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1119.78	J/molxK	948.57	Joback Method
cpg	1135.20	J/molxK	985.00	Joback Method
cpg	1149.01	J/molxK	1021.43	Joback Method
cpg	1161.20	J/molxK	1057.86	Joback Method
cpg	1171.79	J/molxK	1094.29	Joback Method
cpg	1180.77	J/molxK	1130.72	Joback Method
cpg	1188.14	J/molxK	1167.15	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U381556&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381556&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

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