

# Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl dec-9-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C19H26F8O4/c1-2-3-4-5-6-7-8-9-12-30-14(28)10-11-15(29)31-13-17(22,23)19
<b>InchiKey:</b>	IZFORKXRLWADDD-UHFFFAOYSA-N
<b>Formula:</b>	C19H26F8O4
<b>SMILES:</b>	C=CCCCCCCCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	470.39

## Physical Properties

Property code	Value	Unit	Source
gf	-1823.30	kJ/mol	Joback Method
hf	-2400.07	kJ/mol	Joback Method
hfus	48.13	kJ/mol	Joback Method
hvap	64.72	kJ/mol	Joback Method
log10ws	-6.61		Crippen Method
logp	5.941		Crippen Method
mcvol	303.310	ml/mol	McGowan Method
pc	974.73	kPa	Joback Method
rinpol	2050.00		NIST Webbook
rinpol	2050.00		NIST Webbook
tb	767.41	K	Joback Method
tc	939.80	K	Joback Method
tf	443.43	K	Joback Method
vc	1.234	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	948.03	J/molxK	767.41	Joback Method
cpg	963.19	J/molxK	796.14	Joback Method
cpg	977.44	J/molxK	824.87	Joback Method
cpg	990.82	J/molxK	853.61	Joback Method
cpg	1003.40	J/molxK	882.34	Joback Method
cpg	1015.23	J/molxK	911.07	Joback Method
cpg	1026.35	J/molxK	939.80	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=U391247&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391247&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>h vap:</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>r in pol:</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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