

# Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl oct-3-en-2-yl ester

<b>Inchi:</b>	InChI=1S/C17H22F8O4/c1-3-4-5-6-7-11(2)29-13(27)9-8-12(26)28-10-15(20,21)17(24,25)
<b>InchiKey:</b>	ILERQSMOPYJWIE-VOTSOKGWSA-N
<b>Formula:</b>	C17H22F8O4
<b>SMILES:</b>	CCCCC=CC(C)OC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	442.34

## Physical Properties

Property code	Value	Unit	Source
gf	-1850.20	kJ/mol	Joback Method
hf	-2372.28	kJ/mol	Joback Method
hfus	40.91	kJ/mol	Joback Method
hvap	60.51	kJ/mol	Joback Method
log10ws	-5.89		Crippen Method
logp	5.159		Crippen Method
mvol	275.130	ml/mol	McGowan Method
pc	1116.31	kPa	Joback Method
rinpol	1738.00		NIST Webbook
rinpol	1738.00		NIST Webbook
tb	728.69	K	Joback Method
tc	896.59	K	Joback Method
tf	402.57	K	Joback Method
vc	1.115	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	835.97	J/mol×K	728.69	Joback Method
cpg	850.12	J/mol×K	756.67	Joback Method
cpg	863.42	J/mol×K	784.66	Joback Method
cpg	875.93	J/mol×K	812.64	Joback Method
cpg	887.69	J/mol×K	840.62	Joback Method
cpg	898.76	J/mol×K	868.61	Joback Method
cpg	909.18	J/mol×K	896.59	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391020&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391020&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>hvpap:</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>rinppl:</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

Latest version available from:

<https://www.chemeo.com/cid/117-058-8/Succinic-acid-2-2-3-3-4-4-5-5-octafluoropentyl-oct-3-en-2-yl-ester.pdf>

Generated by Cheméo on 2024-05-01 02:46:25.383160854 +0000 UTC m=+16820834.303738165.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.