

# Succinic acid, 2,2,3,3-tetrafluoropropyl pent-4-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C12H16F4O4/c1-2-3-4-7-19-9(17)5-6-10(18)20-8-12(15,16)11(13)14/h2,11H,1
<b>InchiKey:</b>	NWBQQCWQILMFOZ-UHFFFAOYSA-N
<b>Formula:</b>	C12H16F4O4
<b>SMILES:</b>	C=CCCCOC(=O)CCC(=O)OCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	300.25

## Physical Properties

Property code	Value	Unit	Source
gf	-1108.68	kJ/mol	Joback Method
hf	-1453.65	kJ/mol	Joback Method
hfus	32.51	kJ/mol	Joback Method
hvap	55.00	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	2.720		Crippen Method
mcvol	197.600	ml/mol	McGowan Method
pc	1752.14	kPa	Joback Method
rinpol	1466.00		NIST Webbook
rinpol	1466.00		NIST Webbook
tb	616.63	K	Joback Method
tc	781.88	K	Joback Method
tf	357.34	K	Joback Method
vc	0.791	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	529.99	J/mol×K	616.63	Joback Method
cpg	542.64	J/mol×K	644.17	Joback Method
cpg	554.67	J/mol×K	671.71	Joback Method
cpg	566.09	J/mol×K	699.26	Joback Method
cpg	576.92	J/mol×K	726.80	Joback Method
cpg	587.16	J/mol×K	754.34	Joback Method
cpg	596.85	J/mol×K	781.88	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=U391061&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391061&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>hvap:</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>rinpola:</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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