

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

<b>Inchi:</b>	InChI=1S/C12H17F3O4/c1-4-5-8(2)18-10(16)6-7-11(17)19-9(3)12(13,14)15/h4,8-9H,1,5-
<b>InchiKey:</b>	VWGKDENEJFXMW-UHFFFAOYSA-N
<b>Formula:</b>	C12H17F3O4
<b>SMILES:</b>	C=CCC(C)OC(=O)CCC(=O)OC(C)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	282.26

## Physical Properties

Property code	Value	Unit	Source
gf	-916.31	kJ/mol	Joback Method
hf	-1262.82	kJ/mol	Joback Method
hfus	25.91	kJ/mol	Joback Method
hvap	55.42	kJ/mol	Joback Method
log10ws	-3.31		Crippen Method
logp	2.768		Crippen Method
mcvol	195.830	ml/mol	McGowan Method
pc	1832.54	kPa	Joback Method
rinpol	1310.00		NIST Webbook
rinpol	1310.00		NIST Webbook
tb	616.92	K	Joback Method
tc	790.59	K	Joback Method
tf	341.75	K	Joback Method
vc	0.767	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	522.33	J/molxK	616.92	Joback Method
cpg	535.71	J/molxK	645.87	Joback Method
cpg	548.40	J/molxK	674.81	Joback Method
cpg	560.42	J/molxK	703.76	Joback Method
cpg	571.78	J/molxK	732.70	Joback Method
cpg	582.51	J/molxK	761.65	Joback Method
cpg	592.62	J/molxK	790.59	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391149&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391149&amp;Units=SI</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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