

# Succinic acid, 2,2,3,3-tetrafluoropropyl hex-5-en-1-yl ester

<b>Inchi:</b>	InChI=1S/C13H18F4O4/c1-2-3-4-5-8-20-10(18)6-7-11(19)21-9-13(16,17)12(14)15/h2,12
<b>InchiKey:</b>	TXKQTORIAAEULY-UHFFFAOYSA-N
<b>Formula:</b>	C13H18F4O4
<b>SMILES:</b>	C=CCCCOC(=O)CCC(=O)OCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	314.27

## Physical Properties

Property code	Value	Unit	Source
gf	-1100.26	kJ/mol	Joback Method
hf	-1474.29	kJ/mol	Joback Method
hfus	35.10	kJ/mol	Joback Method
hvap	57.22	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.110		Crippen Method
mvol	211.690	ml/mol	McGowan Method
pc	1619.37	kPa	Joback Method
rinpol	1564.00		NIST Webbook
rinpol	1564.00		NIST Webbook
tb	639.51	K	Joback Method
tc	804.78	K	Joback Method
tf	368.61	K	Joback Method
vc	0.848	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	581.26	J/mol×K	639.51	Joback Method
cpg	594.47	J/mol×K	667.06	Joback Method
cpg	607.02	J/mol×K	694.60	Joback Method
cpg	618.94	J/mol×K	722.15	Joback Method
cpg	630.23	J/mol×K	749.69	Joback Method
cpg	640.91	J/mol×K	777.24	Joback Method
cpg	650.99	J/mol×K	804.78	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U391276&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391276&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>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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