

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

Inchi:	InChI=1S/C13H18F4O4/c1-2-3-4-5-8-20-10(18)6-7-11(19)21-9-13(16,17)12(14)15/h4-5,1
InchiKey:	PUKISXCHSBJISO-PLNGDYQASA-N
Formula:	C13H18F4O4
SMILES:	CCCC=CCOC(=O)CCC(=O)OCC(F)(F)C(F)F
Mol. weight [g/mol]:	314.27

## Physical Properties

Property code	Value	Unit	Source
gf	-1107.88	kJ/mol	Joback Method
hf	-1482.50	kJ/mol	Joback Method
hfus	36.58	kJ/mol	Joback Method
hvap	57.85	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.110		Crippen Method
mcvol	211.690	ml/mol	McGowan Method
pc	1632.49	kPa	Joback Method
rinpol	1566.00		NIST Webbook
rinpol	1566.00		NIST Webbook
tb	646.99	K	Joback Method
tc	815.19	K	Joback Method
tf	365.29	K	Joback Method
vc	0.847	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	582.24	J/mol×K	646.99	Joback Method
cpg	595.47	J/mol×K	675.02	Joback Method
cpg	608.02	J/mol×K	703.06	Joback Method
cpg	619.91	J/mol×K	731.09	Joback Method
cpg	631.17	J/mol×K	759.12	Joback Method
cpg	641.81	J/mol×K	787.15	Joback Method
cpg	651.86	J/mol×K	815.19	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391294&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391294&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.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>

# 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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