

# Succinic acid, 2,2,3,3-tetrafluoropropyl 2-ethoxyethyl ester

<b>Inchi:</b>	InChI=1S/C11H16F4O5/c1-2-18-5-6-19-8(16)3-4-9(17)20-7-11(14,15)10(12)13/h10H,2-7
<b>InchiKey:</b>	ODFBBAUIXDSJEO-UHFFFAOYSA-N
<b>Formula:</b>	C11H16F4O5
<b>SMILES:</b>	CCOCCOC(=O)CCC(=O)OCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	304.24

## Physical Properties

Property code	Value	Unit	Source
gf	-1309.94	kJ/mol	Joback Method
hf	-1690.66	kJ/mol	Joback Method
hfus	32.39	kJ/mol	Joback Method
hvap	55.85	kJ/mol	Joback Method
log10ws	-1.87		Crippen Method
logp	1.790		Crippen Method
mcvol	193.680	ml/mol	McGowan Method
pc	1807.70	kPa	Joback Method
rinsol	1450.00		NIST Webbook
tb	619.49	K	Joback Method
tc	783.32	K	Joback Method
tf	370.06	K	Joback Method
vc	0.772	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	527.40	J/mol×K	619.49	Joback Method
cpg	539.86	J/mol×K	646.79	Joback Method
cpg	551.74	J/mol×K	674.10	Joback Method
cpg	563.06	J/mol×K	701.40	Joback Method
cpg	573.80	J/mol×K	728.71	Joback Method
cpg	583.99	J/mol×K	756.01	Joback Method
cpg	593.61	J/mol×K	783.32	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390660&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390660&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>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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