

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

<b>Inchi:</b>	InChI=1S/C9H11F5O4/c10-3-4-17-6(15)1-2-7(16)18-5-9(13,14)8(11)12/h8H,1-5H2
<b>InchiKey:</b>	GIMDMRYOLCHWJB-UHFFFAOYSA-N
<b>Formula:</b>	C9H11F5O4
<b>SMILES:</b>	O=C(CCC(=O)OCC(F)(F)C(F)F)OCCF
<b>Mol. weight [g/mol]:</b>	278.17

## Physical Properties

Property code	Value	Unit	Source
gf	-1416.59	kJ/mol	Joback Method
hf	-1713.27	kJ/mol	Joback Method
hfus	29.10	kJ/mol	Joback Method
hvap	48.17	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.723		Crippen Method
mvol	161.400	ml/mol	McGowan Method
pc	2088.84	kPa	Joback Method
rinpol	1291.00		NIST Webbook
rinpol	1291.00		NIST Webbook
tb	550.58	K	Joback Method
tc	708.70	K	Joback Method
tf	325.88	K	Joback Method
vc	0.660	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	412.94	J/mol×K	550.58	Joback Method
cpg	423.73	J/mol×K	576.93	Joback Method
cpg	434.03	J/mol×K	603.29	Joback Method
cpg	443.85	J/mol×K	629.64	Joback Method
cpg	453.21	J/mol×K	655.99	Joback Method
cpg	462.11	J/mol×K	682.35	Joback Method
cpg	470.56	J/mol×K	708.70	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=U390879&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390879&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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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