

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

<b>Inchi:</b>	InChI=1S/C13H11F5O4/c14-8-3-1-2-4-9(8)22-11(20)6-5-10(19)21-7-13(17,18)12(15)16/h
<b>InchiKey:</b>	GPJJBTUKYQCOOI-UHFFFAOYSA-N
<b>Formula:</b>	C13H11F5O4
<b>SMILES:</b>	O=C(CCC(=O)Oc1ccccc1F)OCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	326.22

## Physical Properties

Property code	Value	Unit	Source
gf	-1280.13	kJ/mol	Joback Method
hf	-1570.77	kJ/mol	Joback Method
hfus	33.11	kJ/mol	Joback Method
hvap	60.01	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	2.955		Crippen Method
mvol	194.000	ml/mol	McGowan Method
pc	1964.82	kPa	Joback Method
rinpol	1632.00		NIST Webbook
rinpol	1632.00		NIST Webbook
tb	673.76	K	Joback Method
tc	857.46	K	Joback Method
tf	409.90	K	Joback Method
vc	0.776	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	531.03	J/mol×K	673.76	Joback Method
cpg	542.81	J/mol×K	704.38	Joback Method
cpg	553.83	J/mol×K	734.99	Joback Method
cpg	564.13	J/mol×K	765.61	Joback Method
cpg	573.71	J/mol×K	796.23	Joback Method
cpg	582.60	J/mol×K	826.85	Joback Method
cpg	590.82	J/mol×K	857.46	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390302&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390302&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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