

# Succinic acid, 4-chloro-3-methylphenyl 2,2,3,3-tetrafluoropropyl ester

<b>Inchi:</b>	InChI=1S/C14H13ClF4O4/c1-8-6-9(2-3-10(8)15)23-12(21)5-4-11(20)22-7-14(18,19)13(16)
<b>InchiKey:</b>	VWWPOGBPSJIZJA-UHFFFAOYSA-N
<b>Formula:</b>	C14H13ClF4O4
<b>SMILES:</b>	Cc1cc(OC(=O)CCC(=O)OCC(F)(F)C(F)F)ccc1Cl
<b>Mol. weight [g/mol]:</b>	356.70

## Physical Properties

Property code	Value	Unit	Source
gf	-1098.46	kJ/mol	Joback Method
hf	-1422.51	kJ/mol	Joback Method
hfus	36.43	kJ/mol	Joback Method
hvap	68.10	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	3.778		Crippen Method
mcvol	218.560	ml/mol	McGowan Method
pc	1796.98	kPa	Joback Method
rinpola	1982.00		NIST Webbook
rinpola	1982.00		NIST Webbook
tb	739.78	K	Joback Method
tc	933.73	K	Joback Method
tf	463.02	K	Joback Method
vc	0.864	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	599.10	J/molxK	739.78	Joback Method
cpg	610.70	J/molxK	772.11	Joback Method
cpg	621.49	J/molxK	804.43	Joback Method
cpg	631.49	J/molxK	836.76	Joback Method
cpg	640.71	J/molxK	869.08	Joback Method
cpg	649.18	J/molxK	901.41	Joback Method
cpg	656.92	J/molxK	933.73	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=U390855&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390855&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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