

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

<b>Inchi:</b>	InChI=1S/C14H12ClF5O4/c1-8-6-9(2-3-10(8)15)24-12(22)5-4-11(21)23-7-13(16,17)14(18)
<b>InchiKey:</b>	HUQZOAINGHJAEI-UHFFFAOYSA-N
<b>Formula:</b>	C14H12ClF5O4
<b>SMILES:</b>	<chem>Cc1cc(OC(=O)CCC(=O)OCC(F)(F)C(F)(F)F)ccc1Cl</chem>
<b>Mol. weight [g/mol]:</b>	374.69

## Physical Properties

Property code	Value	Unit	Source
gf	-1287.99	kJ/mol	Joback Method
hf	-1622.09	kJ/mol	Joback Method
hfus	35.62	kJ/mol	Joback Method
hvap	66.38	kJ/mol	Joback Method
log10ws	-4.88		Crippen Method
logp	4.075		Crippen Method
mvol	220.330	ml/mol	McGowan Method
pc	1746.28	kPa	Joback Method
rinpol	1823.00		NIST Webbook
rinpol	1823.00		NIST Webbook
tb	736.26	K	Joback Method
tc	928.78	K	Joback Method
tf	481.03	K	Joback Method
vc	0.876	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	608.90	J/molxK	736.26	Joback Method
cpg	620.05	J/molxK	768.35	Joback Method
cpg	630.39	J/molxK	800.43	Joback Method
cpg	639.95	J/molxK	832.52	Joback Method
cpg	648.76	J/molxK	864.61	Joback Method
cpg	656.87	J/molxK	896.69	Joback Method
cpg	664.30	J/molxK	928.78	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390873&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390873&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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