

# Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl 2-chloro-4-methylphenyl ester

<b>Inchi:</b>	InChI=1S/C16H13ClF8O4/c1-8-2-3-10(9(17)6-8)29-12(27)5-4-11(26)28-7-14(20,21)16(2)
<b>InchiKey:</b>	XUICZTJCEUEYJJ-UHFFFAOYSA-N
<b>Formula:</b>	C16H13ClF8O4
<b>SMILES:</b>	<chem>Cc1ccc(OC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)c(Cl)c1</chem>
<b>Mol. weight [g/mol]:</b>	456.71

## Physical Properties

Property code	Value	Unit	Source
gf	-1855.18	kJ/mol	Joback Method
hf	-2265.73	kJ/mol	Joback Method
hfus	39.10	kJ/mol	Joback Method
hvap	66.69	kJ/mol	Joback Method
log10ws	-5.99		Crippen Method
logp	5.048		Crippen Method
mcvol	253.820	ml/mol	McGowan Method
pc	1378.88	kPa	Joback Method
rinpol	2000.00		NIST Webbook
rinpol	2000.00		NIST Webbook
tb	776.16	K	Joback Method
tc	961.73	K	Joback Method
tf	492.76	K	Joback Method
vc	1.026	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	741.87	J/molxK	776.16	Joback Method
cpg	752.92	J/molxK	807.09	Joback Method
cpg	763.12	J/molxK	838.02	Joback Method
cpg	772.55	J/molxK	868.95	Joback Method
cpg	781.24	J/molxK	899.87	Joback Method
cpg	789.25	J/molxK	930.80	Joback Method
cpg	796.64	J/molxK	961.73	Joback Method

# Sources

<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=U390210&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390210&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.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>

# 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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