

# Succinic acid, 4-chloro-3-methylphenyl pentafluorobenzyl ester

**Inchi:** InChI=1S/C18H12ClF5O4/c1-8-6-9(2-3-11(8)19)28-13(26)5-4-12(25)27-7-10-14(20)16(2)  
**InchiKey:** FOAVMNZUCOBSSC-UHFFFAOYSA-N  
**Formula:** C18H12ClF5O4  
**SMILES:** Cc1cc(OC(=O)CCC(=O)OCc2c(F)c(F)c(F)c(F)c2F)ccc1Cl  
**Mol. weight [g/mol]:** 422.73

## Physical Properties

Property code	Value	Unit	Source
gf	-1195.73	kJ/mol	Joback Method
hf	-1507.97	kJ/mol	Joback Method
hfus	52.91	kJ/mol	Joback Method
hvap	83.46	kJ/mol	Joback Method
log10ws	-6.83		Crippen Method
logp	4.773		Crippen Method
mcvol	252.930	ml/mol	McGowan Method
pc	1527.07	kPa	Joback Method
rinpola	2463.00		NIST Webbook
rinpola	2463.00		NIST Webbook
tb	885.82	K	Joback Method
tc	1093.67	K	Joback Method
tf	610.29	K	Joback Method
vc	1.014	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	719.15	J/molxK	885.82	Joback Method
cpg	729.15	J/molxK	920.46	Joback Method
cpg	738.15	J/molxK	955.10	Joback Method
cpg	746.13	J/molxK	989.75	Joback Method
cpg	753.09	J/molxK	1024.39	Joback Method
cpg	759.03	J/molxK	1059.03	Joback Method
cpg	763.94	J/molxK	1093.67	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U389890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389890&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>
<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>

# 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>hvpap:</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>rinppl:</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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