

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

<b>Inchi:</b>	InChI=1S/C16H13ClF8O5/c1-28-10-6-8(17)2-3-9(10)30-12(27)5-4-11(26)29-7-14(20,21)
<b>InchiKey:</b>	CBAROLWUPDWNSD-UHFFFAOYSA-N
<b>Formula:</b>	C16H13ClF8O5
<b>SMILES:</b>	COc1cc(Cl)ccc1OC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	472.71

## Physical Properties

Property code	Value	Unit	Source
gf	-1960.18	kJ/mol	Joback Method
hf	-2397.95	kJ/mol	Joback Method
hfus	40.29	kJ/mol	Joback Method
hvap	69.10	kJ/mol	Joback Method
log10ws	-5.64		Crippen Method
logp	4.748		Crippen Method
mvol	259.690	ml/mol	McGowan Method
pc	1361.64	kPa	Joback Method
rinpol	2104.00		NIST Webbook
rinpol	2104.00		NIST Webbook
tb	798.58	K	Joback Method
tc	985.80	K	Joback Method
tf	514.99	K	Joback Method
vc	1.044	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	767.87	J/mol×K	798.58	Joback Method
cpg	778.66	J/mol×K	829.78	Joback Method
cpg	788.59	J/mol×K	860.99	Joback Method
cpg	797.70	J/mol×K	892.19	Joback Method
cpg	806.03	J/mol×K	923.39	Joback Method
cpg	813.64	J/mol×K	954.60	Joback Method
cpg	820.56	J/mol×K	985.80	Joback Method

# Sources

<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=U390930&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390930&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>

# 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>h vap:</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>r in pol:</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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