

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

<b>Inchi:</b>	InChI=1S/C16H14F8O5/c1-27-9-3-2-4-10(7-9)29-12(26)6-5-11(25)28-8-14(19,20)16(23,24)
<b>InchiKey:</b>	FPKBYIKHDYIJQG-UHFFFAOYSA-N
<b>Formula:</b>	C16H14F8O5
<b>SMILES:</b>	COc1cccc(OC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)c1
<b>Mol. weight [g/mol]:</b>	438.27

## Physical Properties

Property code	Value	Unit	Source
gf	-1938.62	kJ/mol	Joback Method
hf	-2370.74	kJ/mol	Joback Method
hfus	36.48	kJ/mol	Joback Method
hvap	64.06	kJ/mol	Joback Method
log10ws	-4.95		Crippen Method
logp	4.095		Crippen Method
mvol	247.450	ml/mol	McGowan Method
pc	1415.44	kPa	Joback Method
rinpol	1986.00		NIST Webbook
rinpol	1986.00		NIST Webbook
tb	756.17	K	Joback Method
tc	936.92	K	Joback Method
tf	472.55	K	Joback Method
vc	0.995	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	744.62	J/molxK	756.17	Joback Method
cpg	756.52	J/molxK	786.29	Joback Method
cpg	767.55	J/molxK	816.42	Joback Method
cpg	777.74	J/molxK	846.54	Joback Method
cpg	787.14	J/molxK	876.67	Joback Method
cpg	795.79	J/molxK	906.79	Joback Method
cpg	803.74	J/molxK	936.92	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390975&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390975&amp;Units=SI</a>
<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.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>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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