

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

**Inchi:** InChI=1S/C15H11F9O4/c16-8-3-1-2-4-9(8)28-11(26)6-5-10(25)27-7-13(19,20)15(23,24)1  
**InchiKey:** KOMAXFNMGTXZSO-UHFFFAOYSA-N  
**Formula:** C15H11F9O4  
**SMILES:** O=C(CCC(=O)Oc1ccccc1F)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)F  
**Mol. weight [g/mol]:** 426.23

## Physical Properties

Property code	Value	Unit	Source
gf	-2036.85	kJ/mol	Joback Method
hf	-2413.99	kJ/mol	Joback Method
hfus	35.79	kJ/mol	Joback Method
hvap	58.61	kJ/mol	Joback Method
log10ws	-5.17		Crippen Method
logp	4.225		Crippen Method
mvol	229.260	ml/mol	McGowan Method
pc	1490.74	kPa	Joback Method
rinpol	1718.00		NIST Webbook
rinpol	1718.00		NIST Webbook
tb	710.14	K	Joback Method
tc	884.59	K	Joback Method
tf	439.64	K	Joback Method
vc	0.939	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	672.47	J/mol×K	710.14	Joback Method
cpg	683.91	J/mol×K	739.22	Joback Method
cpg	694.54	J/mol×K	768.29	Joback Method
cpg	704.39	J/mol×K	797.37	Joback Method
cpg	713.50	J/mol×K	826.44	Joback Method
cpg	721.94	J/mol×K	855.52	Joback Method
cpg	729.73	J/mol×K	884.59	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=U390303&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390303&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>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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