

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

<b>Inchi:</b>	InChI=1S/C17H16F8O4/c18-14(19)16(22,23)17(24,25)15(20,21)10-29-13(27)7-6-12(26)2
<b>InchiKey:</b>	BPOQOGPKAHOLMW-UHFFFAOYSA-N
<b>Formula:</b>	C17H16F8O4
<b>SMILES:</b>	O=C(CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F)OCCc1ccccc1
<b>Mol. weight [g/mol]:</b>	436.29

## Physical Properties

Property code	Value	Unit	Source
gf	-1815.57	kJ/mol	Joback Method
hf	-2247.69	kJ/mol	Joback Method
hfus	38.28	kJ/mol	Joback Method
hvap	63.21	kJ/mol	Joback Method
log10ws	-5.02		Crippen Method
logp	4.267		Crippen Method
mvol	255.670	ml/mol	McGowan Method
pc	1349.66	kPa	Joback Method
rinpol	1927.00		NIST Webbook
rinpol	1927.00		NIST Webbook
tb	751.65	K	Joback Method
tc	931.13	K	Joback Method
tf	449.07	K	Joback Method
vc	1.032	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	773.24	J/molxK	751.65	Joback Method
cpg	785.88	J/molxK	781.56	Joback Method
cpg	797.62	J/molxK	811.48	Joback Method
cpg	808.51	J/molxK	841.39	Joback Method
cpg	818.61	J/molxK	871.31	Joback Method
cpg	827.98	J/molxK	901.22	Joback Method
cpg	836.67	J/molxK	931.13	Joback Method

# Sources

<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.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>
<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=U389742&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389742&amp;Units=SI</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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