

# Succinic acid, isobutyl 2-(pentafluorophenoxy)ethyl ester

<b>Inchi:</b>	InChI=1S/C16H17F5O5/c1-8(2)7-26-10(23)4-3-9(22)24-5-6-25-16-14(20)12(18)11(17)13
<b>InchiKey:</b>	YPRYTYREFORBKN-UHFFFAOYSA-N
<b>Formula:</b>	C16H17F5O5
<b>SMILES:</b>	CC(C)COC(=O)CCC(=O)OCCOc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	384.30

## Physical Properties

Property code	Value	Unit	Source
gf	-1401.23	kJ/mol	Joback Method
hf	-1802.04	kJ/mol	Joback Method
hfus	47.93	kJ/mol	Joback Method
hvap	73.05	kJ/mol	Joback Method
log10ws	-4.50		Crippen Method
logp	3.284		Crippen Method
mvol	242.140	ml/mol	McGowan Method
pc	1434.80	kPa	Joback Method
rinpol	1944.00		NIST Webbook
rinpol	1944.00		NIST Webbook
tb	787.97	K	Joback Method
tc	971.51	K	Joback Method
tf	513.60	K	Joback Method
vc	0.974	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	711.28	J/molxK	787.97	Joback Method
cpg	723.78	J/molxK	818.56	Joback Method
cpg	735.45	J/molxK	849.15	Joback Method
cpg	746.28	J/molxK	879.74	Joback Method
cpg	756.26	J/molxK	910.33	Joback Method
cpg	765.37	J/molxK	940.92	Joback Method
cpg	773.61	J/molxK	971.51	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U381548&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381548&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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