

# Succinic acid, phenyl pentafluorobenzyl ester

**Inchi:** InChI=1S/C17H11F5O4/c18-13-10(14(19)16(21)17(22)15(13)20)8-25-11(23)6-7-12(24)2  
**InchiKey:** PVNQTJMLDZDVHK-UHFFFAOYSA-N  
**Formula:** C17H11F5O4  
**SMILES:** O=C(CCC(=O)Oc1ccccc1)OCc1c(F)c(F)c(F)c(F)c1F  
**Mol. weight [g/mol]:** 374.26

## Physical Properties

Property code	Value	Unit	Source
gf	-1172.96	kJ/mol	Joback Method
hf	-1448.65	kJ/mol	Joback Method
hfus	46.90	kJ/mol	Joback Method
hvap	75.52	kJ/mol	Joback Method
log10ws	-5.67		Crippen Method
logp	3.811		Crippen Method
mcvol	226.600	ml/mol	McGowan Method
pc	1741.91	kPa	Joback Method
rinpol	2162.00		NIST Webbook
rinpol	2162.00		NIST Webbook
tb	815.55	K	Joback Method
tc	1016.26	K	Joback Method
tf	544.06	K	Joback Method
vc	0.909	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	645.43	J/mol×K	815.55	Joback Method
cpg	656.37	J/mol×K	849.00	Joback Method
cpg	666.40	J/mol×K	882.45	Joback Method
cpg	675.53	J/mol×K	915.90	Joback Method
cpg	683.76	J/mol×K	949.36	Joback Method
cpg	691.09	J/mol×K	982.81	Joback Method
cpg	697.53	J/mol×K	1016.26	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=U357997&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357997&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rin<sub>pol</sub>:</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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