

# Succinic acid, cyclohexylmethyl pentafluorobenzyl ester

**Inchi:** InChI=1S/C18H19F5O4/c19-14-11(15(20)17(22)18(23)16(14)21)9-27-13(25)7-6-12(24)2  
**InchiKey:** ZHMZQTHUPDJPEM-UHFFFAOYSA-N  
**Formula:** C18H19F5O4  
**SMILES:** O=C(CCC(=O)OCC1CCCCC1)OCc1c(F)c(F)c(F)c(F)c1F  
**Mol. weight [g/mol]:** 394.33

## Physical Properties

Property code	Value	Unit	Source
gf	-1252.50	kJ/mol	Joback Method
hf	-1651.50	kJ/mol	Joback Method
hfus	47.28	kJ/mol	Joback Method
hvap	75.90	kJ/mol	Joback Method
log10ws	-5.99		Crippen Method
logp	4.329		Crippen Method
mcvol	253.590	ml/mol	McGowan Method
pc	1459.02	kPa	Joback Method
rinpol	2215.00		NIST Webbook
rinpol	2215.00		NIST Webbook
tb	831.30	K	Joback Method
tc	1028.83	K	Joback Method
tf	536.29	K	Joback Method
vc	1.006	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	789.84	J/molxK	831.30	Joback Method
cpg	803.84	J/molxK	864.22	Joback Method
cpg	816.71	J/molxK	897.14	Joback Method
cpg	828.46	J/molxK	930.06	Joback Method
cpg	839.09	J/molxK	962.98	Joback Method
cpg	848.60	J/molxK	995.91	Joback Method
cpg	857.00	J/molxK	1028.83	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=U389886&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389886&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>hvap:</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>rinpola:</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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