

# Succinic acid, hexyl 1-phenyl-2,2,2-trifluoroethyl ester

Inchi:	InChI=1S/C18H23F3O4/c1-2-3-4-8-13-24-15(22)11-12-16(23)25-17(18(19,20)21)14-9-6-
InchiKey:	IMDBHNUTLKCODZ-UHFFFAOYSA-N
Formula:	C18H23F3O4
SMILES:	CCCCCOC(=O)CCC(=O)OC(c1ccccc1)C(F)(F)F
Mol. weight [g/mol]:	360.37

## Physical Properties

Property code	Value	Unit	Source
gf	-838.78	kJ/mol	Joback Method
hf	-1270.28	kJ/mol	Joback Method
hfus	40.29	kJ/mol	Joback Method
hvap	72.11	kJ/mol	Joback Method
log10ws	-5.31		Crippen Method
logp	4.737		Crippen Method
mcvol	260.910	ml/mol	McGowan Method
pc	1444.64	kPa	Joback Method
rinpol	1995.00		NIST Webbook
rinpol	1995.00		NIST Webbook
tb	784.64	K	Joback Method
tc	976.37	K	Joback Method
tf	452.55	K	Joback Method
vc	1.020	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	786.85	J/molxK	784.64	Joback Method
cpg	801.54	J/molxK	816.60	Joback Method
cpg	815.23	J/molxK	848.55	Joback Method
cpg	827.96	J/molxK	880.51	Joback Method
cpg	839.77	J/molxK	912.46	Joback Method
cpg	850.70	J/molxK	944.42	Joback Method
cpg	860.77	J/molxK	976.37	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.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=U381573&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381573&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>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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