

# Succinic acid, ethyl 1-(pentafluorophenyl)ethyl ester

Inchi:	InChI=1S/C14H13F5O4/c1-3-22-7(20)4-5-8(21)23-6(2)9-10(15)12(17)14(19)13(18)11(9)
InchiKey:	OVUCRNDGRPPRSX-UHFFFAOYSA-N
Formula:	C14H13F5O4
SMILES:	CCOC(=O)CCC(=O)OC(C)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	340.24

## Physical Properties

Property code	Value	Unit	Source
gf	-1313.07	kJ/mol	Joback Method
hf	-1628.54	kJ/mol	Joback Method
hfus	41.56	kJ/mol	Joback Method
hvap	66.18	kJ/mol	Joback Method
log10ws	-4.63		Crippen Method
logp	3.330		Crippen Method
mcvol	208.090	ml/mol	McGowan Method
pc	1692.12	kPa	Joback Method
rinpol	1636.00		NIST Webbook
rinpol	1636.00		NIST Webbook
tb	719.79	K	Joback Method
tc	899.93	K	Joback Method
tf	468.83	K	Joback Method
vc	0.844	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	576.00	J/molxK	719.79	Joback Method
cpg	587.63	J/molxK	749.81	Joback Method
cpg	598.62	J/molxK	779.84	Joback Method
cpg	608.96	J/molxK	809.86	Joback Method
cpg	618.63	J/molxK	839.88	Joback Method
cpg	627.64	J/molxK	869.91	Joback Method
cpg	635.98	J/molxK	899.93	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=U380820&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380820&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>

# 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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