

# Succinic acid, 1,1,1-trifluoroprop-2-yl 2-methylphenyl ester

Inchi:	InChI=1S/C14H15F3O4/c1-9-5-3-4-6-11(9)21-13(19)8-7-12(18)20-10(2)14(15,16)17/h3-6
InchiKey:	MZFBFCAKLFZHKB-UHFFFAOYSA-N
Formula:	C14H15F3O4
SMILES:	Cc1ccccc1OC(=O)CCC(=O)OC(C)C(F)(F)F
Mol. weight [g/mol]:	304.26

## Physical Properties

Property code	Value	Unit	Source
gf	-882.09	kJ/mol	Joback Method
hf	-1199.19	kJ/mol	Joback Method
hfus	29.54	kJ/mol	Joback Method
hvap	63.87	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.175		Crippen Method
mvol	204.550	ml/mol	McGowan Method
pc	1954.41	kPa	Joback Method
rinpol	1652.00		NIST Webbook
rinpol	1652.00		NIST Webbook
tb	698.10	K	Joback Method
tc	893.80	K	Joback Method
tf	419.99	K	Joback Method
vc	0.796	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	566.95	J/mol×K	698.10	Joback Method
cpg	580.19	J/mol×K	730.72	Joback Method
cpg	592.55	J/mol×K	763.33	Joback Method
cpg	604.06	J/mol×K	795.95	Joback Method
cpg	614.75	J/mol×K	828.57	Joback Method
cpg	624.63	J/mol×K	861.18	Joback Method
cpg	633.74	J/mol×K	893.80	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=U389757&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389757&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>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>h vap:</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>r in pol:</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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