

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

**Inchi:** InChI=1S/C17H23F3O4/c1-9(17(18,19)20)23-14(21)2-3-15(22)24-16-12-5-10-4-11(7-12)  
**InchiKey:** LRMRJPJOMJVPLJ-UHFFFAOYSA-N  
**Formula:** C17H23F3O4  
**SMILES:** CC(OC(=O)CCC(=O)OC1C2CC3CC(C2)CC1C3)C(F)(F)F  
**Mol. weight [g/mol]:** 348.36

## Physical Properties

Property code	Value	Unit	Source
gf	-804.88	kJ/mol	Joback Method
hf	-1314.61	kJ/mol	Joback Method
hfus	38.11	kJ/mol	Joback Method
hvap	66.91	kJ/mol	Joback Method
log10ws	-4.27		Crippen Method
logp	3.628		Crippen Method
mcvol	238.000	ml/mol	McGowan Method
pc	1578.46	kPa	Joback Method
rinpol	1990.00		NIST Webbook
rinpol	1990.00		NIST Webbook
tb	750.23	K	Joback Method
tc	945.81	K	Joback Method
tf	456.68	K	Joback Method
vc	0.933	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	779.70	J/molxK	750.23	Joback Method
cpg	797.14	J/molxK	782.83	Joback Method
cpg	813.48	J/molxK	815.42	Joback Method
cpg	828.80	J/molxK	848.02	Joback Method
cpg	843.17	J/molxK	880.62	Joback Method
cpg	856.67	J/molxK	913.21	Joback Method
cpg	869.37	J/molxK	945.81	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=U391337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391337&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>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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