

# Succinic acid, 2,2,3,3-tetrafluoropropyl 10-chlorodecyl ester

**Inchi:** InChI=1S/C17H27ClF4O4/c18-11-7-5-3-1-2-4-6-8-12-25-14(23)9-10-15(24)26-13-17(21,22)O2  
**InchiKey:** AZMSRVAPSONVBE-UHFFFAOYSA-N  
**Formula:** C17H27ClF4O4  
**SMILES:** O=C(CCC(=O)OCC(F)(F)C(F)F)OCCCCCCCCCCCCI  
**Mol. weight [g/mol]:** 406.84

## Physical Properties

Property code	Value	Unit	Source
gf	-1166.35	kJ/mol	Joback Method
hf	-1698.02	kJ/mol	Joback Method
hfus	50.94	kJ/mol	Joback Method
hvap	71.18	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	5.113		Crippen Method
mcvol	284.590	ml/mol	McGowan Method
pc	1150.65	kPa	Joback Method
rinpol	2239.00		NIST Webbook
rinpol	2239.00		NIST Webbook
tb	771.78	K	Joback Method
tc	947.68	K	Joback Method
tf	445.37	K	Joback Method
vc	1.139	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	854.94	J/molxK	771.78	Joback Method
cpg	869.92	J/molxK	801.10	Joback Method
cpg	884.03	J/molxK	830.41	Joback Method
cpg	897.30	J/molxK	859.73	Joback Method
cpg	909.76	J/molxK	889.05	Joback Method
cpg	921.43	J/molxK	918.37	Joback Method
cpg	932.33	J/molxK	947.68	Joback Method

# Sources

<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.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=U390402&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390402&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>rlnpol:</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

Latest version available from:

<https://www.chemeo.com/cid/74-539-2/Succinic-acid-2-2-3-3-tetrafluoropropyl-10-chlorodecyl-ester.pdf>

Generated by Cheméo on 2024-04-27 10:57:09.160858651 +0000 UTC m=+16504678.081435973.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.