

# Succinic acid, 2,2,2-trifluoroethyl undecyl ester

Inchi:	InChI=1S/C17H29F3O4/c1-2-3-4-5-6-7-8-9-10-13-23-15(21)11-12-16(22)24-14-17(18,19
InchiKey:	XDFIVGBMEOQERD-UHFFFAOYSA-N
Formula:	C17H29F3O4
SMILES:	CCCCCCCCCOC(=O)CCC(=O)OCC(F)(F)F
Mol. weight [g/mol]:	354.40

## Physical Properties

Property code	Value	Unit	Source
gf	-957.17	kJ/mol	Joback Method
hf	-1480.89	kJ/mol	Joback Method
hfus	47.19	kJ/mol	Joback Method
hvap	68.00	kJ/mol	Joback Method
log10ws	-5.33		Crippen Method
logp	4.946		Crippen Method
mcvol	270.580	ml/mol	McGowan Method
pc	1210.67	kPa	Joback Method
rinpol	1920.00		NIST Webbook
rinpol	1920.00		NIST Webbook
tb	735.52	K	Joback Method
tc	906.41	K	Joback Method
tf	429.86	K	Joback Method
vc	1.079	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	815.91	J/mol×K	735.52	Joback Method
cpg	831.88	J/mol×K	764.00	Joback Method
cpg	847.01	J/mol×K	792.48	Joback Method
cpg	861.34	J/mol×K	820.97	Joback Method
cpg	874.87	J/mol×K	849.45	Joback Method
cpg	887.63	J/mol×K	877.93	Joback Method
cpg	899.64	J/mol×K	906.41	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=U382469&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382469&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>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

Latest version available from:

<https://www.chemeo.com/cid/116-645-7/Succinic-acid-2-2-2-trifluoroethyl-undecyl-ester.pdf>

Generated by Cheméo on 2024-05-10 15:51:01.327334205 +0000 UTC m=+17645510.247911520.

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