

# Succinic acid, 1,1,1-trifluoroprop-2-yl non-5-yn-3-yl ester

<b>Inchi:</b>	InChI=1S/C16H23F3O4/c1-4-6-7-8-9-13(5-2)23-15(21)11-10-14(20)22-12(3)16(17,18)19
<b>InchiKey:</b>	NXANDDZCZMDUSW-UHFFFAOYSA-N
<b>Formula:</b>	C16H23F3O4
<b>SMILES:</b>	CCCC#CCC(CC)OC(=O)CCC(=O)OC(C)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	336.35

## Physical Properties

Property code	Value	Unit	Source
gf	-767.67	kJ/mol	Joback Method
hf	-1198.51	kJ/mol	Joback Method
hfus	40.67	kJ/mol	Joback Method
hvap	67.15	kJ/mol	Joback Method
log10ws	-4.93		Crippen Method
logp	3.776		Crippen Method
mvol	247.890	ml/mol	McGowan Method
pc	1477.02	kPa	Joback Method
rinpol	1698.00		NIST Webbook
rinpol	1698.00		NIST Webbook
tb	720.76	K	Joback Method
tc	904.23	K	Joback Method
tf	494.69	K	Joback Method
vc	0.973	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	714.59	J/mol×K	720.76	Joback Method
cpg	729.68	J/mol×K	751.34	Joback Method
cpg	743.91	J/mol×K	781.92	Joback Method
cpg	757.30	J/mol×K	812.50	Joback Method
cpg	769.89	J/mol×K	843.08	Joback Method
cpg	781.68	J/mol×K	873.66	Joback Method
cpg	792.71	J/mol×K	904.23	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391005&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391005&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# 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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