

# Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl non-5-yn-3-yl ester

<b>Inchi:</b>	InChI=1S/C18H22F8O4/c1-3-5-6-7-8-12(4-2)30-14(28)10-9-13(27)29-11-16(21,22)18(25)
<b>InchiKey:</b>	QSUYVFGVAZTKLT-UHFFFAOYSA-N
<b>Formula:</b>	C18H22F8O4
<b>SMILES:</b>	CCCC#CCC(CC)OC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)
<b>Mol. weight [g/mol]:</b>	454.35

## Physical Properties

Property code	Value	Unit	Source
gf	-1719.20	kJ/mol	Joback Method
hf	-2237.84	kJ/mol	Joback Method
hfus	46.42	kJ/mol	Joback Method
hvap	64.93	kJ/mol	Joback Method
log10ws	-6.24		Crippen Method
logp	4.996		Crippen Method
mvol	284.920	ml/mol	McGowan Method
pc	1125.32	kPa	Joback Method
rinpol	1858.00		NIST Webbook
rinpol	1858.00		NIST Webbook
tb	756.41	K	Joback Method
tc	931.13	K	Joback Method
tf	525.02	K	Joback Method
vc	1.153	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	869.32	J/mol×K	756.41	Joback Method
cpg	883.50	J/mol×K	785.53	Joback Method
cpg	896.80	J/mol×K	814.65	Joback Method
cpg	909.27	J/mol×K	843.77	Joback Method
cpg	920.95	J/mol×K	872.89	Joback Method
cpg	931.90	J/mol×K	902.01	Joback Method
cpg	942.15	J/mol×K	931.13	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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U391007&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391007&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>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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