

# Succinic acid, 2,2,3,3,4,4,4-heptafluorobutyl nonyl ester

<b>Inchi:</b>	InChI=1S/C17H25F7O4/c1-2-3-4-5-6-7-8-11-27-13(25)9-10-14(26)28-12-15(18,19)16(20)
<b>InchiKey:</b>	DDVMUAKQLCMASY-UHFFFAOYSA-N
<b>Formula:</b>	C17H25F7O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	426.37

## Physical Properties

Property code	Value	Unit	Source
gf	-1730.73	kJ/mol	Joback Method
hf	-2282.83	kJ/mol	Joback Method
hfus	44.68	kJ/mol	Joback Method
hvap	62.14	kJ/mol	Joback Method
log10ws	-5.95		Crippen Method
logp	5.437		Crippen Method
mvol	277.660	ml/mol	McGowan Method
pc	1099.35	kPa	Joback Method
rinpol	1769.00		NIST Webbook
rinpol	1769.00		NIST Webbook
tb	726.14	K	Joback Method
tc	892.08	K	Joback Method
tf	437.06	K	Joback Method
vc	1.129	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	850.72	J/mol×K	726.14	Joback Method
cpg	865.58	J/mol×K	753.80	Joback Method
cpg	879.59	J/mol×K	781.45	Joback Method
cpg	892.80	J/mol×K	809.11	Joback Method
cpg	905.24	J/mol×K	836.77	Joback Method
cpg	916.97	J/mol×K	864.42	Joback Method
cpg	928.00	J/mol×K	892.08	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382356&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382356&amp;Units=SI</a>
<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>

# 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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