

# Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl tetrahydrofurfuryl ester

<b>Inchi:</b>	InChI=1S/C14H16F8O5/c15-11(16)13(19,20)14(21,22)12(17,18)7-27-10(24)4-3-9(23)26-
<b>InchiKey:</b>	PTAYAVGODXFTFN-UHFFFAOYSA-N
<b>Formula:</b>	C14H16F8O5
<b>SMILES:</b>	O=C(CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F)OCC1CCCO1
<b>Mol. weight [g/mol]:</b>	416.26

## Physical Properties

Property code	Value	Unit	Source
gf	-2002.81	kJ/mol	Joback Method
hf	-2493.82	kJ/mol	Joback Method
hfus	38.38	kJ/mol	Joback Method
hvap	59.03	kJ/mol	Joback Method
log10ws	-3.76		Crippen Method
logp	3.203		Crippen Method
mvol	232.170	ml/mol	McGowan Method
pc	1486.14	kPa	Joback Method
rinpol	1746.00		NIST Webbook
rinpol	1746.00		NIST Webbook
tb	698.56	K	Joback Method
tc	870.58	K	Joback Method
tf	426.31	K	Joback Method
vc	0.934	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	716.92	J/molxK	698.56	Joback Method
cpg	730.48	J/molxK	727.23	Joback Method
cpg	743.15	J/molxK	755.90	Joback Method
cpg	754.96	J/molxK	784.57	Joback Method
cpg	765.96	J/molxK	813.24	Joback Method
cpg	776.20	J/molxK	841.91	Joback Method
cpg	785.72	J/molxK	870.58	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=U390712&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390712&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

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