

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

<b>Inchi:</b>	InChI=1S/C11H9Cl3F8O4/c12-9(13,14)4-26-6(24)2-1-5(23)25-3-8(17,18)11(21,22)10(19)
<b>InchiKey:</b>	IJDSUOAGQAWQMZ-UHFFFAOYSA-N
<b>Formula:</b>	C11H9Cl3F8O4
<b>SMILES:</b>	O=C(CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F)OCC(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	463.53

## Physical Properties

Property code	Value	Unit	Source
gf	-2011.45	kJ/mol	Joback Method
hf	-2416.35	kJ/mol	Joback Method
hfus	33.87	kJ/mol	Joback Method
hvap	59.44	kJ/mol	Joback Method
log10ws	-4.97		Crippen Method
logp	4.394		Crippen Method
mcvol	231.610	ml/mol	McGowan Method
pc	1515.21	kPa	Joback Method
rinpol	1662.00		NIST Webbook
rinpol	1662.00		NIST Webbook
tb	696.75	K	Joback Method
tc	872.13	K	Joback Method
tf	447.21	K	Joback Method
vc	0.941	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	621.92	J/mol×K	696.75	Joback Method
cpg	631.23	J/mol×K	725.98	Joback Method
cpg	639.80	J/mol×K	755.21	Joback Method
cpg	647.69	J/mol×K	784.44	Joback Method
cpg	654.94	J/mol×K	813.67	Joback Method
cpg	661.61	J/mol×K	842.90	Joback Method
cpg	667.74	J/mol×K	872.13	Joback Method

# Sources

<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=U390228&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390228&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>hvap:</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>rlnpol:</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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