

# Succinic acid, 2,2,3,3-tetrafluoropropyl 8-chlorooctyl ester

**Inchi:** InChI=1S/C15H23ClF4O4/c16-9-5-3-1-2-4-6-10-23-12(21)7-8-13(22)24-11-15(19,20)14(25)17-22  
**InchiKey:** ZTWSFKQBSJOLCE-UHFFFAOYSA-N  
**Formula:** C15H23ClF4O4  
**SMILES:** O=C(CCC(=O)OCC(F)(F)C(F)F)OCCCCCCCCCI  
**Mol. weight [g/mol]:** 378.79

## Physical Properties

Property code	Value	Unit	Source
gf	-1183.19	kJ/mol	Joback Method
hf	-1656.74	kJ/mol	Joback Method
hfus	45.76	kJ/mol	Joback Method
hvap	66.73	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	4.333		Crippen Method
mcvol	256.410	ml/mol	McGowan Method
pc	1316.56	kPa	Joback Method
rinpol	2051.00		NIST Webbook
rinpol	2051.00		NIST Webbook
tb	726.02	K	Joback Method
tc	897.17	K	Joback Method
tf	422.83	K	Joback Method
vc	1.028	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	741.89	J/molxK	726.02	Joback Method
cpg	755.90	J/molxK	754.54	Joback Method
cpg	769.13	J/molxK	783.07	Joback Method
cpg	781.63	J/molxK	811.59	Joback Method
cpg	793.39	J/molxK	840.12	Joback Method
cpg	804.45	J/molxK	868.64	Joback Method
cpg	814.81	J/molxK	897.17	Joback Method

# Sources

<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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390486&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390486&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>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>rinpola:</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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