

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

**Inchi:** InChI=1S/C15H20F8O4/c1-3-4-5-9(2)27-11(25)7-6-10(24)26-8-13(18,19)15(22,23)14(20)  
**InchiKey:** JALHNAQYBGSRRN-UHFFFAOYSA-N  
**Formula:** C15H20F8O4  
**SMILES:** CCCCC(C)OC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)F  
**Mol. weight [g/mol]:** 416.30

## Physical Properties

Property code	Value	Unit	Source
gf	-1947.26	kJ/mol	Joback Method
hf	-2448.22	kJ/mol	Joback Method
hfus	35.53	kJ/mol	Joback Method
hvap	56.10	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	4.603		Crippen Method
mcvol	251.250	ml/mol	McGowan Method
pc	1228.56	kPa	Joback Method
rinpola	1566.00		NIST Webbook
rinpola	1566.00		NIST Webbook
tb	678.77	K	Joback Method
tc	839.25	K	Joback Method
tf	385.11	K	Joback Method
vc	1.022	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	748.43	J/mol×K	678.77	Joback Method
cpg	762.29	J/mol×K	705.52	Joback Method
cpg	775.37	J/mol×K	732.26	Joback Method
cpg	787.69	J/mol×K	759.01	Joback Method
cpg	799.29	J/mol×K	785.76	Joback Method
cpg	810.20	J/mol×K	812.51	Joback Method
cpg	820.46	J/mol×K	839.25	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=U390678&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390678&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>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

Latest version available from:

<https://www.cheméo.com/cid/124-265-0/Succinic-acid-2-2-3-3-4-4-5-5-octafluoropentyl-2-hexyl-ester.pdf>

Generated by Cheméo on 2024-04-28 03:49:04.878954466 +0000 UTC m=+16565393.799531781.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.