

# Succinic acid, 2-octyl 2,2,3,3-tetrafluoropropyl ester

Inchi:	InChI=1S/C15H24F4O4/c1-3-4-5-6-7-11(2)23-13(21)9-8-12(20)22-10-15(18,19)14(16)17
InchiKey:	QFNYGUZCEMZBAX-UHFFFAOYSA-N
Formula:	C15H24F4O4
SMILES:	CCCCCCC(C)OC(=O)CCC(=O)OCC(F)(F)C(F)F
Mol. weight [g/mol]:	344.34

## Physical Properties

Property code	Value	Unit	Source
gf	-1173.70	kJ/mol	Joback Method
hf	-1646.28	kJ/mol	Joback Method
hfus	38.04	kJ/mol	Joback Method
hvap	61.96	kJ/mol	Joback Method
log10ws	-4.57		Crippen Method
logp	4.112		Crippen Method
mcvol	244.170	ml/mol	McGowan Method
pc	1360.63	kPa	Joback Method
rinpola	1645.00		NIST Webbook
rinpola	1645.00		NIST Webbook
tb	688.15	K	Joback Method
tc	855.06	K	Joback Method
tf	377.91	K	Joback Method
vc	0.973	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	711.96	J/mol×K	688.15	Joback Method
cpg	726.91	J/mol×K	715.97	Joback Method
cpg	741.10	J/mol×K	743.79	Joback Method
cpg	754.55	J/mol×K	771.61	Joback Method
cpg	767.27	J/mol×K	799.43	Joback Method
cpg	779.28	J/mol×K	827.24	Joback Method
cpg	790.60	J/mol×K	855.06	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370973&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370973&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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