

# Succinic acid, 2,2,3,3,4,4,5,5-octafluoropentyl 2-methylpent-3-yl ester

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

## Physical Properties

Property code	Value	Unit	Source
gf	-1949.70	kJ/mol	Joback Method
hf	-2453.50	kJ/mol	Joback Method
hfus	32.01	kJ/mol	Joback Method
hvap	55.71	kJ/mol	Joback Method
log10ws	-4.95		Crippen Method
logp	4.459		Crippen Method
mcvol	251.250	ml/mol	McGowan Method
pc	1235.48	kPa	Joback Method
rinpol	1569.00		NIST Webbook
rinpol	1569.00		NIST Webbook
tb	678.33	K	Joback Method
tc	840.12	K	Joback Method
tf	370.11	K	Joback Method
vc	1.016	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	748.90	J/mol×K	678.33	Joback Method
cpg	762.91	J/mol×K	705.30	Joback Method
cpg	776.11	J/mol×K	732.26	Joback Method
cpg	788.54	J/mol×K	759.23	Joback Method
cpg	800.23	J/mol×K	786.19	Joback Method
cpg	811.21	J/mol×K	813.16	Joback Method
cpg	821.52	J/mol×K	840.12	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.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=U389595&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U389595&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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