

# Succinic acid, 3-methylbut-2-en-1-yl 2,2,3,3,4,4,5,5-octafluoropentyl ester

**Inchi:** InChI=1S/C14H16F8O4/c1-8(2)5-6-25-9(23)3-4-10(24)26-7-12(17,18)14(21,22)13(19,20)

**InchiKey:** FSANVZYARBVRGY-UHFFFAOYSA-N

**Formula:** C14H16F8O4

**SMILES:** CC(C)=CCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F

**Mol. weight [g/mol]:** 400.26

## Physical Properties

Property code	Value	Unit	Source
gf	-1881.57	kJ/mol	Joback Method
hf	-2314.87	kJ/mol	Joback Method
hfus	35.36	kJ/mol	Joback Method
hvap	54.30	kJ/mol	Joback Method
log10ws	-4.52		Crippen Method
logp	3.990		Crippen Method
mcvol	232.860	ml/mol	McGowan Method
pc	1363.65	kPa	Joback Method
rinpol	1566.00		NIST Webbook
rinpol	1566.00		NIST Webbook
tb	660.37	K	Joback Method
tc	822.79	K	Joback Method
tf	369.80	K	Joback Method
vc	0.954	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	672.09	J/mol×K	660.37	Joback Method
cpg	684.86	J/mol×K	687.44	Joback Method
cpg	696.86	J/mol×K	714.51	Joback Method
cpg	708.14	J/mol×K	741.58	Joback Method
cpg	718.74	J/mol×K	768.65	Joback Method
cpg	728.70	J/mol×K	795.72	Joback Method
cpg	738.06	J/mol×K	822.79	Joback Method

# Sources

<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=U390702&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390702&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>

# 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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