

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

<b>Inchi:</b>	InChI=1S/C13H10F14O4/c14-7(12(23,24)25)9(17,18)3-30-5(28)1-2-6(29)31-4-10(19,20)
<b>InchiKey:</b>	BKKGOFBSMUCD-UHFFFAOYSA-N
<b>Formula:</b>	C13H10F14O4
<b>SMILES:</b>	O=C(CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F)OCC(F)(F)C(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	496.19

## Physical Properties

Property code	Value	Unit	Source
gf	-3127.28	kJ/mol	Joback Method
hf	-3601.10	kJ/mol	Joback Method
hfus	34.00	kJ/mol	Joback Method
hvap	44.15	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	4.560		Crippen Method
mvol	233.690	ml/mol	McGowan Method
pc	1194.82	kPa	Joback Method
rinpol	1345.00		NIST Webbook
rinpol	1345.00		NIST Webbook
tb	622.17	K	Joback Method
tc	767.08	K	Joback Method
tf	370.95	K	Joback Method
vc	0.997	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	696.10	J/mol×K	622.17	Joback Method
cpg	707.74	J/mol×K	646.32	Joback Method
cpg	718.63	J/mol×K	670.47	Joback Method
cpg	728.81	J/mol×K	694.62	Joback Method
cpg	738.32	J/mol×K	718.78	Joback Method
cpg	747.20	J/mol×K	742.93	Joback Method
cpg	755.48	J/mol×K	767.08	Joback Method

# Sources

<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=U390799&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390799&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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