

# Succinic acid, 2,2,3,3,4,4,4-heptafluorobutyl hexyl ester

<b>Inchi:</b>	InChI=1S/C14H19F7O4/c1-2-3-4-5-8-24-10(22)6-7-11(23)25-9-12(15,16)13(17,18)14(19)
<b>InchiKey:</b>	NDVWCWSUKNAUSN-UHFFFAOYSA-N
<b>Formula:</b>	C14H19F7O4
<b>SMILES:</b>	CCCCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	384.29

## Physical Properties

Property code	Value	Unit	Source
gf	-1755.99	kJ/mol	Joback Method
hf	-2220.91	kJ/mol	Joback Method
hfus	36.91	kJ/mol	Joback Method
hvap	55.46	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	4.266		Crippen Method
mvol	235.390	ml/mol	McGowan Method
pc	1343.73	kPa	Joback Method
rinpol	1496.00		NIST Webbook
rinpol	1496.00		NIST Webbook
tb	657.50	K	Joback Method
tc	817.02	K	Joback Method
tf	403.25	K	Joback Method
vc	0.961	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	685.68	J/mol×K	657.50	Joback Method
cpg	699.13	J/mol×K	684.09	Joback Method
cpg	711.83	J/mol×K	710.67	Joback Method
cpg	723.81	J/mol×K	737.26	Joback Method
cpg	735.11	J/mol×K	763.85	Joback Method
cpg	745.75	J/mol×K	790.44	Joback Method
cpg	755.78	J/mol×K	817.02	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=U382353&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382353&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>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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