

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

Inchi:	InChI=1S/C13H16F8O5/c1-2-24-5-6-25-8(22)3-4-9(23)26-7-11(16,17)13(20,21)12(18,19)
InchiKey:	KUIDTEBTQUUFRM-UHFFFAOYSA-N
Formula:	C13H16F8O5
SMILES:	CCOCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
Mol. weight [g/mol]:	404.25

## Physical Properties

Property code	Value	Unit	Source
gf	-2066.66	kJ/mol	Joback Method
hf	-2533.88	kJ/mol	Joback Method
hfus	35.06	kJ/mol	Joback Method
hvap	54.44	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	3.061		Crippen Method
mcvol	228.940	ml/mol	McGowan Method
pc	1386.08	kPa	Joback Method
rinpol	1541.00		NIST Webbook
rinpol	1541.00		NIST Webbook
tb	655.87	K	Joback Method
tc	813.60	K	Joback Method
tf	399.80	K	Joback Method
vc	0.934	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	668.84	J/mol×K	655.87	Joback Method
cpg	681.45	J/mol×K	682.16	Joback Method
cpg	693.35	J/mol×K	708.45	Joback Method
cpg	704.56	J/mol×K	734.73	Joback Method
cpg	715.12	J/mol×K	761.02	Joback Method
cpg	725.05	J/mol×K	787.31	Joback Method
cpg	734.37	J/mol×K	813.60	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=U390661&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390661&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>h vap:</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>r in pol:</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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