

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

Inchi:	InChI=1S/C12H14F8O5/c1-23-4-5-24-7(21)2-3-8(22)25-6-10(15,16)12(19,20)11(17,18)9
InchiKey:	YOBMXOVJRDSJBI-UHFFFAOYSA-N
Formula:	C12H14F8O5
SMILES:	COCCOC(=O)CCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
Mol. weight [g/mol]:	390.22

## Physical Properties

Property code	Value	Unit	Source
gf	-2075.08	kJ/mol	Joback Method
hf	-2513.24	kJ/mol	Joback Method
hfus	32.47	kJ/mol	Joback Method
hvap	52.22	kJ/mol	Joback Method
log10ws	-2.91		Crippen Method
logp	2.670		Crippen Method
mcvol	214.850	ml/mol	McGowan Method
pc	1490.74	kPa	Joback Method
rinpol	1487.00		NIST Webbook
rinpol	1487.00		NIST Webbook
tb	632.99	K	Joback Method
tc	789.39	K	Joback Method
tf	388.53	K	Joback Method
vc	0.878	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	616.83	J/molxK	632.99	Joback Method
cpg	628.93	J/molxK	659.06	Joback Method
cpg	640.35	J/molxK	685.12	Joback Method
cpg	651.13	J/molxK	711.19	Joback Method
cpg	661.27	J/molxK	737.26	Joback Method
cpg	670.81	J/molxK	763.32	Joback Method
cpg	679.77	J/molxK	789.39	Joback Method

# Sources

<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=U390732&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390732&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>

# 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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